FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

o. 1665.—Vol. XXXVII.

LONDON, SATURDAY, JULY 20, 1867.

STAMPEDSIXPENCE. UNSTAMPED..FIVEPENCE

R. JAMES CROFTS, STOCK AND SHAREBROKER, No. 1, FINCH LANE, CORNHILL.

(Established 24 years.)

Dens of mining shares difficult of sale in the open market may find purfor the same through Mr. CROFTS' agency. Also parties requiring adjusted to the disposal or abandonment of doubtful mining stocks may bly avail of Mr. CROFTS' long experience on the market in all cases of redifficulty, legal or otherwise.

Aprilalists may hear of an investment to pay from Ong Hundred to unnome and Fiffy per cent. income by applying to Mr. CROFTS. Actual just realised amount to the latter percentage.

Bankers: National Bank of Scotland, Finch—Inc.

TILLIAM LANE, 44, THREADNEE ELLE STREET, LONDON, E.C., STOCK AND SHARE DEALER (Established Thirty has FOR SALE the following SHARES—

bor, 8s. 6d.

55 Frank Mills, 20s. 9d.

150 Frontino Gold, 9s. 6d.

150 F IDE TO INVESTORS.—MR. LELEAN'S STOCK, SHARE, AND FINANCE REGISTER for July, contains the twelfth of a series cles on Investments, comprising the average dividends and rate of interest on the market price of shares in every description of company, as well colonial and Foreign Stocks; and such information as is necessary to intending investors. 6d. per copy, or 5s. annually, post free, labed by Mr. BAKER LELEAN, at his offices, 11, Royal Exchange, Loudon. . WILLIAM WASTOCK AND SHAREDEALER.
No. 29, THREADNEEDLE STREET, LONDON, E.C. WAR B. JOHN BATTERS, STOCK AND MINING SHAREBROKER, 13, THROGMORTON STREET, LONDON, E. O. R. WILLIAM SEWARD, STOCK AND SHAREDEALUR,
19, THROGMORTON STREET, LONDON, E.C. 19, THROGMORTON STREET, LONDON, E.C.

E S R S. W A R D A N D J A C K M A N,
STOCK AND SHAREDEALERS,
OUSHION COURT, OLD BROAD STREET, CITY, E.C.
Closing Prices, Friday Evening, July 19.
Buyers, Sellers,
d ... 274 £ 734 Great Laxey ... £1746 £1734
ton ... 274 £ 734 Marke Valley (ex div.) ... 456 - 478
ton Moor. ... 559 - 538 North Corty ... 234 - 334
North Downs. ... 334 - 334 West Chiverton ... 606 - 67
Morth Downs. ... 334 - 334 West Chiverton ... 606 - 67
West Chiverton ... 616 - 67
West Chiverton ... 616 - 67
Setallack ... 434 - 5
Vor ... 1734 Wheal Seton ... 116 - 115
S. WARD and JACKMAN refer to their remarks on p. 477.
The Stock" and "Mining Exchanges" being closed on Saturday, there is a stendance at our offices until Monday next, Lothbury ...
19, 1867. Bankers: London and Westminster, Lothbury ... B. THOMAS THOMPSON, MINING OFFICES, 12, OLD JEWRY CHAMBERS, LONDON, E.C. ESSRS, WILSON, WARD, AND CO., STOCK AND SHAREDEALERS.

16, UNION COURT, OLD BROAD STREET, LONDON, E.C. Can recommend two good mines for investment. ESSRS. McNEILL AND LONG, STOCK, SHARE, AND MINING DEALERS.

31, THREADNEEDLE STREET, LONDON, E.C.

Bankers: The London Joint Stock Bank.

WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S, BISHOPSGATE STREET, LONDON, E.C. (Established 13 years), has kit kits, 15s.

50 W. St. Ives, 9s. 9d.

50 Lovell Consols, £3.

4 South Frances, £294

4 South Frances, £294

50 Greaville, 296. 6d.

50 Grebor, 8s. 6d.

50 Greaville, 296. 6d.

50 Grebor, 8s. 6d.

60 Forntino, 9s. 6d.

70 Frontino, 9s. 6d.

70 Whall Basset, 17s.

10 Marke Valley, £4 16 3

10 Marke Valley, £4 16 3

10 Marke Valley, £4 16 3

10 Great Laxey, £175.

10 Great Laxey, £175.

10 Great Laxey, £175.

10 WILLIAM MICHELL STOCK AND, SHARED A set Kitty, 15s. uth Darren, 21s. st Lovell, £6 11s 3d ford, £7%. rth Crofty, £314. No. Downs,£3 11 3

R. WILLIAM MICHELL, STOCK AND SHAREDEALER, has FOR SALE—300 Prince of Wales, 20 East Caradon, 5 Carn Brea, ford, and 2 Wheal Seton, for cash; and 200 Chontales for time.

STALES—"Their last excuse was that they were waiting for lay season, the dry weather having retarded their reducing operations. shops they have had a wet St. Swithin's Day. The price is preposterous. In SPERCHASE COMPANY—"(L.'—1. I am sick and tired of advertising ahares, having failed to get a bid for them. I hearthe Barytes Mine is a s, not being able to dispose of the produce.—2. It is only another way of ligon the public.

Note of Walss—"A. B. C."—I must refer you to my report in this week's al. The sale of ore is about £300 less. The quality of the next sampling, probability, will further recede, if not the quantity. Surely, no one can that this is a retrogression.

The wals of the control of

G. D. SANDY, STOCK AND SHAREDEALER,
No. 48, THREADNEEDLE STREET, LONDON, E.C., TRANSACTS
1888 IN EVERY DESCRIPTION of STOCK EXCHANGE SECURITIES
16 and FINANCIAL ENTERPRISES, at close market prices,
Correct Daily Price List may be had on application.

Money advanced to any amount on legitimate stocks and shares.

References exchanged.

References exchanged.

References exchanged.

Ro.4, GEORGE BUDGE, STOCK AND SHAREDEALER, No.4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established in), has FOR SALE at nett prices:—50 Don Pedro; 25 Pestarena, £2½; 20 less, £4½; 20 Rose and Chiverton United; 5 Great Laxey, £17½; 35 St. tres, £8½; 20 Rose and Chiverton United; 5 Great Laxey, £17½; 35 St. tres, £8½; 20 Rose and Chiverton United; 5 Great Laxey, £17½; 35 St. tres, £8½; 50 Drake Walls, £8, £6½; 50 Pendeen, 178, £6½; 50 Redmor, 28, £6½; 40 Great Ston, £8; 50 Stoth Callington; 100 Tolcarne, 28, 9½; 50 price, 28, £4½; 50 Redmor, 28, £6½; 50 Redm

CHONTALES GOLD AND SILVER COMPANY.—In PETER WATSON'S "WEEKLY MINING CIRCULAR," No. 433, of yesterday (Friday, July 19), will be found IMPORTANT INFORMATION respecting the future of this company.

79, Old Broad-street, London, E.C.

PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE LIST—SYNOPSIS OF CORNISH AND DEVON MINES," of Friday, July 19, No. 433, Vol. IX., price 6d. each copy, forwarded on application, contains information on the following mines:—
West Great Work. North Wheal Croty. North Wheal Croty. Wheal Chiverton. North Wheal Chiverton. Don's Pedro. West Chiverton. East Wheal Lovel. United Mexican. Mineral Rights Association.

A List of Dividend and Progressive Tin Mines for investment.

PETER WATSON, Stock and Sharedealer, 79, Old Broad-street, London, E.C.

STOCK AND SHAREDEALER.—MR. PETER WATSON,
DENGLISH and FOREIGN STOCK, SHARE, and MINING OFFICES, 79,
OLD BROAD STREET, LONDON, E.C.
Raliway, Joint-Stock Banks, Dock, Insurance, Canal, Mining, Steam-ship, &c.,
and every other description of shares bought and sold at nett prices.
TELEGRAPHIC MESSAGES to BUY or SELL Raliway, Sank, Mine, and
other shares and stocks, punctually attended to, at nett prices for cash, or for
fortnightly settlements, with advice as to purchases or sales.

Twenty-two years' experience. (Two in Cornwall and Twenty in London.) Bankers: The Alliance Bank, and the Union Bank of London. From the close proximity of his offices to the Stock Exchange, as well as the Mining Exchange, PETER WATSON is enabled to act with promptitude on all orders entrasted to him, which at all times are carried out with punctuality, and to the best advantage of his clients.

M. R. EDWARD COOKE, STOCK AND SHAREDEALER, 76, OLD BROAD STREET, LONDON, E.C.
Deals in Chontales, Don Pedro North del Rey, Rossa Grande, Anglo-Brazilian, Frontino, Prince of Wales, Chiverton Moor, North Wheal Chiverton, West Wheal Kitty, and North Crotty, at close market prices nott.
Orders for all kinds of Stock Exchange securities, either by letter or telegraph,

Orders for all annual reports of the Country of the Country attended to.
P.S.—An allotment of shares in the Taquaril Gold Mining Company can be ceured through EDWARD COOKE by an early application.
MINERAL RIGHTS.—Mr. COOKE will BUY any number of shares at a fair

Satisfactory references given in any town in the United Kingdon Bankers: Alliance Bank.

MR. W. H. C. U. E. L. L. (late of the firm of WATSON and CUELL),
S.T.O.C. K. A. N.D. S. H.A.R. E. D.E. A. L. E. R.,
I., FINCH LANE, CORNHILL.
BUSINESS in Chontales, Marke Valley, East Lovell, Great Retallack, Great North Downs, West Basset, Buller, Gronville, East Greyville, Prince of Wales, and West Prince of Wales, and West Prince of Wales.
Bankers: Bank of England.

MESSRS. POWELL AND MOSS, SHAREDEALERS 78, OLD BROAD STREET, LONDON, E.C.
Members of the Mining Exchange.

BARTLETT AND CHAPMAN, STOCK AND SHAREDEALERS, 2, BUCKLERSBURY, LONDON, E.C. SPECIAL BUSINESS, as BUYERS or SELLERS, at close nett prices, in the following shares: following shares:—
West Chiverton.
Great South Chiverton.

ollowing shares:

West Chiverton.

Great Soush Chiverton.

East Grenville.

Chiverton.

Great Laxey.

Chiverton Moor.

The INVESTMENT CIRCULAR AND FINANCIAL RECORD for JULY contins valuable information as to the best investments of the day, which will be rewarded post free on application.

Cheques sent by post should be crossed London and Westminster Bark.

MATTHEW GREENE, STOCK AND SHARE DEALER, ST. MICHAEL'S HOUSE, CORNHILL, LONDON, E.C. MATTHEW GREENE recommends the purchase of Rossa Grande, New Clifford, and Clifford Amalgamated.

MATTHEW GREENE has a large quantity of SULPHATE OF BARYTES FOR SALE, at a cheap rate.

Bankers: Ransom and Co., London.

GEORGE RICE, STOCK AND SHAREDEALER, 78, OLD BROAD STREET, LONDON, E.C. (Member of the Mining Exchange), 25 years' experience), TRANSACTS BUSINESS in MINING SHARES, at close prices.

close prices.
SPECIAL BUSINESS in Chiverton Moor, East Lovell, Great Vor, North Crofty
West Chiverton, and Prince of Wales.

Money advanced on mining shares.

July 19, 1867.

Bankers: Bank of England.

July 19, 1867.

Bankers: Bank of England.

M. R. T. ROSEWARNE, 81, OLD BROAD STREET, has BUSINESS in the following shares for cash or time on:—Cilford.
Chiverton Moor.
Chortales.
Devon Consols.
Devon Consols.
Don Pedro.
East Russell.
North Retailack.
Frontino.
T. Rosewarne is on his tour of inspection in Devon and Cornwall, and on his return will be most happy to furnish his friends with all particulars relating to the following mines:—Setons, Chivertons, Retailacks, Prince of Wales.
Grenvilles, East Russell.
Gawton, Okel Tor, and most of the leading mines of the two counties. All communications for the ensuing week should be addressed to the office, when they will be forwarded and promptly replied to. I am inclined to think now is the time to BUY in many mines, as the price is low, and a great rise must shortly follow.
Money advanced on good mining shares. Office hours from 10 to 42/1/
Bankers: Bank of England.

JAMES SCOTT AND CO., STOCK AND SHAREDEALERS,
1, PINNER'S COURT, OLD BROAD STREET, LONDON, E.C.
All Stock Exchange securities dealt in at close market prices for cash or the
bi-monthly settlement. References given.
JAMES SCOTT and Co. have large dealings in East and West Caradon, East
Lovell, North Crofty, Prosper United, Prince of Wales, Anglo-Brazillan, Don
Pedro North del Rey, Pestarena, Chontales, and Frontino and Bolivia shares,
N.B.—JAMES SCOTT and Co. are the proprietors of the "British and Eyrogn
Wiston Civerler." Mining Circular.

JOHN RISLEY, STOCK AND SHAREBROKER (SWORN BROKER), LONDON, E.C., Bankers: London and Westminster, Lothbury.

WALTER TREGELLAS, 122, BISHOPSGATE STREET, WITHIN, E.C., DEALS in ALL DIVIDEND and sound PROGRES. SIVE MINE SHARES, either for cash or the fortnightly settlement at close

narket prices.

Has BUSINESS in St. John del Rey, Don Pedro, Anglo-Brazilian, Frontino, tossa Grande, Chontales.

WALTER TREGELLAS can confidently recommend the Taquaril Gold Mine.
Full and reliable information on application.

Bankers: Alliance Bank.

Bankers: Alliance Bank.

INVESTMENT, LOAN, AND BANK AGENCY
Established 1889.
BANKERS—London and County Bank.
CAPITALISTS will find this Agency a safe medium for the investment of money in First-class Securities to the best advantage.
Purchases and Sales of overy description of Public Securities can be effected, either for immediate or deferred settlement, as may be agreed upon.
Loans granted upon liberal terms, for one year or any shorter period, on Stocks and Shares having a market value.
Five per cent. Interest allowed upon Deposits of all amounts.
The Agency of Public Companies, and Bank and Money Agency Business generally undertaken.
RICHARD TAYLOR AND COMPANY.
No. 12, Clement's-lane, Lombard-street, London, E.C.

M R. CHARLES THOMAS, MINING AGENT, GENERAL SHAREDEALER, AND AUCTIONEER, 3, GREAT ST. HELEN'S, LONDON, E.C.

MESSRS. LANE AND GIBBS, 2, ROYAL EXCHANGE,
LONDON, E.C. (Members of the Mining Exchange), STOCK AND
SHARBDEALERS, AND FINANCIAL AGENTS, transact business in all kinds
of securities at closest nett prices for cash or account.

Parties of respectability can have transfers registered in their names previous
to payment.

Bankers: London and County Bank.

TWO FIRST-CLASS INVESTMENTS, WELL WORTH ATTENTION,

AND PERFECTLY SAFE. NANGILES (TIN AND COPPER) MINE, KEA, CORNWALL.

In 1024 shares, £28 paid. Price, £12 to £15 per share.
This will prove one of the richest and best paying mines in Cornwall. Intending investors should buy a few shares. They will eventually go to £100

each.

N.R.—The copper, tin, and mundic sold in May realised £760 16s. 1d. They sold 59 tons of copper again on the 4th inst., which realised £236 4s.

This valuable property is in the richest district in Cornwall, and is known to be immensely rich for copper. A short time and a small further outlay being only required to bring it into a lasting dividend position. The mine is in a splendid situation. It adjoins and embraces all the rich and profitable lodes of Clifford Amalgamated Mines, which have paid £1,100,000 in dividends. Clifford Amalgamated formerly represented three distinct mines—namely. United Mine, Consolidated, and Wheal Clifford. Shares in the first-named were saleable some years since at £900, in the second at £360 per share. Nanglies, embracing the same rich lodes, cannot fail to become a great and lasting dividend-paying concern; it is progressing towards a paying state. Let them but cut a rich copper lode in the 130 fm. level, and shares would jump up to £50 in a few months, and the mine soon enter the Dividend List.

E AST CHIVERTON (LEAD) MINE,
PERBANZABULOE, CORNWALL.
In 4000 shares, £2 14s. 5d. paid. Price £1 10s. per share.
Shares should be bought at once. There is every prospect of their going to £10 each within a year. The lode lately met with 12 fms. from surface was very promising, producing \$5 cas. of silver per ton of ore, and 79 per cent, for lead. They will cut the lode 25 fms. from surface in a few weeks.
This valuable and promising mine is situated in the richest lead district in Cornwall, and holds out splendid prospects; it is due east of West Chiverton, therefore embraces the lodes of that splendid mine, one of which lodes was lately cut, containing rich silver-lead ore. West Chiverton has paid £5s, 12s in dividends since October, 1863. Shares were £10 in 1863, and now £6s. They pay £8 per share yearly in dividends. Chiverton shares are £7 each. Chiverton Moor are £5 10s. each, whilst East Chiverton are selling at £1 10s. per share, not one-third their real value. There is no reason why shares should not go to £30 each, and pay large dividends. These four mines all embrace the same lodds.
Liability of Sharkinolders,—General meetings are held quarterly, when a small call of 2s. to 2s. 6d. per share is made. Shareholders can sell out at any time, when their liability immediately cases. The next call will be in October.
Every information given to capitalists, shareholders, and intending investors.

Every information given to capitalists, shareholders, and intending investors, ersonally or by letter, upon application to the undersigned, personally or by letter, upon application to the undersigned,
GRANVILLE SHARP, STOCK & SHAREDEALER, 32, POULTRY, LONDON.

MR. J. B. REYNOLDS, STOCK AND SHARE DEALER,
70 and 71, BISHOPSGATE STREET, WITHIN, is PREPARED to
DEAL in the following shares:—
West Chiverton. Wheal Agar. West St. Ives.
Wheal Seton. Chiverton Moor. West Wheal Seton.
Rose and Chiverton. North Crofty. West Wheal Seton.
Rose and Chiverton. North Crofty. West Prince of Wales.
Mr. REYNOLDS refers with pleasure to the Rose and Chiverton and West
Kitty reports in this day's Journal, as also to his letter on p. 477.
Established Ten Years. Member of the Mining Exchange.
Bankers: City Bank.

WEST ST. IVES.—Mr. J. B. REYNOLDS is a BUYER of any number of shares in this mine, as well as a SELLER. Communications will receive prompt attention.

70 and 71, Bishopsgate-street Within, London, E.C., July 19, 1867.

ROSE AND CHIVERTON UNITED.—MR. J. B. REYNOLDS draws attention to this as being one of the finest investments of the day. Reports of Capts. Hancock (of Polberro), Champion, and the opinions of other first-class authorities may be had on application, together with a plan of other first-class authorities may be had on application, togethe the property and district. 70 and 71, Bishopsgate-street Within, London, July 19, 1867.

Now ready,

MR. J. B. REYNOLDS' CIRCULAR for JUNE and JULY is NOW READY, containing valuable information respecting Railways, Banks, Mines, Insurance and Miscellaneous Companies, and will be forwarded gratis on application to Mr. J. B. REYNOLDS, 70 and 71, Bishopsgate-street, London, E.C.

M. R. R. EMERSON, 28, GREAT WINCHESTER STREET, LONDON, E.C., has the following SHARES FOR SALE:—15 Great South Tolgus; 59 Gwydyr Park, 2s. 6d.; 50 West Wheal Kitty, 14s.; 15 Gothic, £2½; 75 Rossa Grande, 11s.; 50 West St. Ives; 40 Bottle Hill, 4s.; 10 Leeds and 8t. Aubyn, £5; 20 New Crow Hill; 10 Rose and Chiverton United; 10 North Retaallack; 10 South Callington; and 20 Budnick Consols. These shares I strongly recommend for a good rise in price.

Advice given on the sale and purchase of shares.

Eighteen years experience in Cornwall and Thirteen in London.

M. R. J. J. R. E. Y. N. O. L. D. S. J. U. N. , S. WARNFORD COURT, THROGMORTON STREET.

At no period was there such a chance of great profits in buying shares in mines, prices of which have fallen from market and other influence. I have selected several which must greatly advance in value. Advice on the outlay of £5 to £5000 will be promptly giver.

R. E. J. B A R T L E
MINING AGENT AND GENERAL SHAREDEALER,
30, GREAT ST. HELEN'S, LONDON, E.C.

MESSRS. J. TAYLOR AND CO., MINING AGENTS AND SHAREDEALERS, 17, CROSS STREET, MANCHESTER, have FOR 40 East St. Just.

50 Clyne Colliery.

50 Cashwell.

10 Prince of Wales.

MESSRS, FREDERIC GILL AND CO., STOCK AND SHAREDEALERS, ST. CLEMENT'S HOUSE, CLEMENT'S LANE, LONDON, E.C., TRANSAOT BUSINESS in all MINING STOCKS and SHARES at closest market nett prices, either for cash or account.

Messrs, F. Gill and Co. can recommend the purchase of shares in a mining company which possesses a most valuable property, containing several good lodes productive of copper ore and blende in large quantities. The late owner has taken a large number of the shares; and many practical miners in the district, who believe that a few months vigorous working will prove the mine a splendid success, have also taken shares—Cheques to be crossed "City Bank."

MR. LEDWARD, CHESTER, has FOR SALE a few SHARES In the TRELOGAN and GLEN ALUN LEAD MINES, at a small seount. An opportunity of acquiring shares in such valuable properties sell on occurs, except at very high premiums; the returns of ore (which have for one time covered the cost) are increasing every month; and the mines are certin, ere long, to pay permanent dividends.

some time covered the cost) are increasing every month; and the minitalin, ere long, to pay permanent dividends,

WANTED, TO PURCHASE, SHARES in the following MINES:—
RHOSESMOR.
MINERA.

WESTMINSTER.

MANCHESTER, AND WEST END OF LONDON

MANCHESTER, AND WEST END OF LONDON.

M. R. W. HANNAM, MINING, SLATE QUARRYING, INSURANCE, AND GENERAL SHAREBROKER.
ROYAL INSURANCE BUILDINGS, KING STREET MANCHESTER; and
49, STRAND, LONDON, W.
INSTANTANEOUS COMMUNICATION with the STOCK and MINING
EXCHANGES, avoiding the delay and annoyance of visiting the City to ascertain prices.

A Monthly Investment Circular on application.

R. THOMAS SPARGO, STOCK AND SHARE DEALER TRANSACTS EVERY DESCRIPTION OF BUSINESS in the PURCHASE and SALE of SHARES in BANKS, CANALS, MINES, RAILWAYS, BRIDGES, INSURANCES, and ALL OTHER BRITISH and FOREIGN STOCK.

Mr. SPABOO has for sale shares in English mines paying regular dividends bi-monthly and quarterly, as also a number of shares in good progressive mines, some of which he with confidence specially recommends to the public as some directments.

Sound investments.

Mr. Spango gives every information as to position and prospects of all mining undertakings, upon application, either personally or by letter, and is enabled through his long experience, aided by his monthly visits to Corawali, Devon and Wales, to obtain the most reliable information as to the numerous mines in those districts. He will at all times give the best advice as to investments in mines, and, if necessary, inspect them himself; as in all cases he wishes to be guided by the intrinsic value of the property, and, if required, will furnish a selected list of dividend and progressive companies.

Mr. Spango has published the following works, viz.:—

Statistics and Observations upon the Minesof Corawali, 1859—2s. 6d.

Ditto ditto ditto 1860, price 2s. 6d.

Ditto ditto ditto 1862, price 8s.

Ditto ditto ditto 1863, price 8s.

Ditto ditto ditto 1863, price 6s.

ditto

Physical, Geological, and Parish Map of Cornwall. Scale, three miles to at inch. Printed in three colours, showing distinctly the mining districts to helpit of the hills, &c. Price 10s. 6d., on cloth and rollers. Geological Maps of the various mining districts, showing the boundary line of each mine, with the lodes, cross-courses, and elvan courses traversing the same. Price 2s. 6d. each.

A Model, or Relief, Map of Cornwall (6 ft. 6 in. by 5 ft), containing the names of every town and village, as also every characteristic point of the county, Price & 5s. eccived, calls paid, and all orders promptly negociated. Commission 134 per cent.

114 per cent.

r. SPARGO has 25 years' experience of mining, 10 of which he was engaged ractical mining, and 15 years he has transacted business in mining shares stock, at 224 and 225, Gresham House, Old Broad-street, City, E.C.

Mr. SPARGO'S Statistics for 1866 are now ready,

Bankers: Consolidated Bank, Lhreadneedle.street.

GUIDE TO INVESTORS.—Mr. SPARGO'S "Guide to Investors other Companies; City and Commercial Facts and Incidents; and a Price List of Shares in Banks, Canals, Railways, Bridges, and Finance Companies, it also contains Rate of Discount at Home and Abroad; together with necessary detailed information connected with the Stock and Share Markets, Mines, and Miscellaneous Companies. The City Article affords the most recent and arthentic information concerning the stock, share, and produce markets.

224 and 225, Gresham House, Old Broad-street, London, E.C., June, 1861.

Now ready, roan tuck, gilt edges, price 6s. (postage 4d.) EALE'S ENGINEERS', ARCHITECTS', AND CONTRACTORS' POCKET-BOOK FOR 1867. Considerably improved, with
many additions. Besides the usual vast mass of Rules, Formulæ, Tables, &c.
will be found a Diary of Events and Data, a General Calendar, a Gas Engineer's
Calendar, Obituary of Engineers, &c. (1865-6), List of Members of the Institutes
of Civil Engineers and British Architects, Tables for the Reciprocal Conversion
of British and Metric Weights and Measures, &c.; with Eight Copper-plates.

"Our old pocket-book friend this year far exceeds in value all its departed ethren. * * We have often found it a great saving of time, and always rrect when consulted."—English Mechanic.
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London: LOCKWOOD and Co., 7, Stationers' Hall-court, E.C.

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PHILOSOPHY OF INVENTION;
THE RIGHTS AND WRONGS OF INVENTORS; and
INVENTORIES OF SECRET INVENTIONS.

By HENRY DIRCKS, C.E., F.C.S., M.R.S.L., F.R.S.E., &c. London: E. and F. N. Spon: 48, Charing-cross, S.W.

A C C I D E N T S W I L L

Everyone should, therefore, provide against them!

£1000 in case of Death, or £6 per week while laid up by Injury, caused by

£1000 In case of Death, or £6 per week while laid up by Injury, caused by

ACCIDENT OF ANY KIND (riding, driving, hunting, shooting, fishing, &c.),

may be secured by an Annual Payment of from £3 to £6 5s. to the

RAILWAY PASSENGERS' ASSURANCE COMPANY.

The Oldest Established and Largest Company in the World insuring against

ACCIDENTS OF EVERY DESCRIPTION.

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Local Agents, or at the

3FFICES,—64, CORNHILL, and 10, REGENT STREET, LONDON WILLIAM J. VIAN, Sec.

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Original Correspondence.

THE MINERAL WEALTH OF NOVA SCOTIA.

THE MINERAL WEALTH OF NOVA SCOTIA.

SIR,—I propose, with your permission, furnishing an occasional article to the Mining Journal upon the gold mines and also upon the coal and other mineral deposits of this province. It seems highly desirable that some pains should be taken to make known in England the extent of the mineral wealth of Nova Scotia. Certainly if it were known, British capital would seek investment here, when it now does not. The opportunity for such investments, at handsome profits, in at least gold, coal, and iron mining are numerous; but I believe that the "General Mining Association," engaged in coal mining in four localities here, is the only English company that has a pound invested in Nova Scotian mines. The solitariness of this exception is, I feel assured, owing solely to the fact that so little is at present known in Great Britain relative to the mineral resources of Nova Scotia.

of Nova Scotia.

To begin with the royal metal, GOLD. I will briefly describe wha To begin with the royal metal, GOLD. I will briefly describe what has already appeared in your columns, although a good while since—namely, the auriferous district of Nova Scotia as a whole. This consists mainly of a Silurian band, extending along the whole Atlantic coast of the peninsula of Nova Scotia proper. This band is 50 miles, or more, in width at its western extremity, but gradually narrows to a point as it extends eastward. The quartzite and slate, of which it is mainly composed, are interrupted in several localities by dykes and mounds of granite. The auriferous quartz veins which intersect the band of Silurian rocks are very numerous; vary from the smallest discernable thickness up to 30 ft. in width, and run in an easterly and westerly direction. Northward of this Silurian district there are certain ridges of metamorphic rock of a more recent age. These ridges, which comprise the highest lands in the province, extend eastward and westward more than the whole length of the peninsula, for they overlap each other. They also make up a large extend eastward and westward more than the whole length of the peninsula, for they overlap each other. They also make up a large portion of the island of Cape Breton. These hills are also auriferous, although, it would thus far appear, in a less degree than the older formations, above described. Whilst dealing with this part of the subject, I will take the liberty of making an extract from a paper which I had the honour to read before the "Nova Scotian Institute of Natural Science," in February, 1866, and which is published in the Transactions of the Institute of that year:—

the Transactions of the Institute of that year:—

"The extent of the two larger * [auriferous] districts which I have indicated comprises, in the aggregate, a large proportion of the surface of Nova Scotia. I would roughly estimate the area of the Lower Silurian district at 7000 square miles, and of the several tracts of the more recent formation at 3000, in all 10,000 square miles. The whole area of the province of Nova Scotia amounts to about 18,600 square miles. It must not be assumed that this large area is throughout auriferous. I will observe parenthetically, that, judging from what is aiready known, there is every reason to believe that future explorations will prove the greater part of this area to be rich in metalliferous deposits of some kind.

In the Lower Silurian district there are found bands of quartists, seemingly nearly parallel with each other, alternating with various slates, extending in a general casterly and westerly direction.

In this quartite and, in a less degree, in some of the slates we find numerous volus of quarts; and these veins—especially those of the quartitie—we find to be auriferous. Of the number of the quartite bands, and the latitudinal extent of each, but little is known.

Longitudinally, this quartite, with its auriferons quarts value are recommended.

these veins—especially those of the quartzite—we find to be auriferous. Of the number of the quartzite bands, and the latitudinal extent of each, but little is known.

**
Longitudinally, this quartzite, with its auriferous quartz veins, can, except where interrupted by the granite dykes already mentioned, be traced the whole length of the Nova Scotian peninsula. Gold has been taken from quartz veins at Yarmouth, and on the shore of Chedabucto Bay, and, I might add, at every intermediate point where diligent search has been made for it in the proper formation. The quantity of quartz embraced in this great length and breadth of quartzite veins. stone must be something enormous. I speak of it in comparison with the bulk of the enclosing rock. On one occasion I myself removed carefully the drift, so as to expose a cross section of the surface merely of the best rock for a distance of about 160 ft. Within that distance I discovered over thirty quartz veins, ranging from 1 to 15 inches in thickness. The whole number of veins would average not less than 6 inches, or (say) 15 feet in all, thickness of quartz to 160 feet of enclosing rock, the dip being here nearly vertical. In another instance, after counting and measuring the quartz veins exposed within a distance of 250 feet, I estimated their aggregate thickness at 25 feet; and yet, as within a part of the distance of 250 feet there was no exposure of the bed rock, the actual thickness of this quartz may have been considerably greater than what I have stated. In both of these cases the quartz veins exposed, or the greater number of them, were known to be auriferous, from examination made at the several spots where laid bare. In other localities quartz veins of 5, 10, and even up to 30 feet in thickness are found. But I will not multiply instances. Those which I have specified do not, I think, exhibit a greater thekness of quartz in proportion to that of the enclosing rock than will be found generally throughout these quartzite bands. I, then, judge solely from what

he never suspected, the he and others have been toiling, perhaps with indifferent success, for months or years previously.

There is good reason to believe, then, that the quantity of quartz within easy reach of the miner in Nova Scotla is immense. The great economic question to be considered is, to what extent is it auriferous? It would be a sweeping and, perhaps, incredible statement to aver that all of these quartz veins bear gold; and yet, so far as one can venture to hold any opinion at all upon a subject on which it is so difficult and dangerous to generalise, I rather incline to the belief that that they all are more or less auriferous. Certainly the result of my own observations tends to that conclusion. I have seen and gathered some facts concerning a great number of these quartz veins that had been opened for the purpose of mining, or at least "prospecting." As to the results, individually, of these examinations, I must admit that I do not speak from motes taken on the several occasions; but, speaking from memory, I can recall no instance where I have seen a quartiz lode fairly tested which did not prove to be auriferous. I have, indeed, seen a shaft sunk upon a previously untried lode to a depth of 60 feet without a "ight" being discovered; but then the quartz has become exceedingly rich. In some instances very rich quartz lodes have been temporarily shardoned as non-auriferous, because the miner has happened to commence operations upon a poor section of the outerop of the vein. Many quartz veins worked in Nova Scotla have proved to be very rich in gold."

All that is very reservedly stated in the foregoing extracts, as to

operations upon a poor section of the outcrop of the vein. Many quartz veins worked in Nova Scotta have proved to be very rich in gold."

All that is very reservedly stated in the foregoing extracts, as to the number, extent, and richness of these quartz veins, has been more than confirmed by subsequent observation and experience. Auriferous quartz lodes, of apparently good paying quality, have been discovered at almost innumerable spots throughout the Silurian band already mentioned. These are only worked as yet in a few of the most easily accessible localities. I may as well add that many known and proved rich auriferous tracts are not worked at all, or worked only upon a small and, therefore, very disadvantageous scale. This statement, taken in connection with what I have said, and shall have to say hereafter, of the richness of these Nova Scottan quartz mines requires explanation. Such a thing as surplus capital in anybody's hands in this new country is scarcely known. As a rule, everybody engaged in business—and most persons are—can employ all the capital at their disposal, and even more, in their regular business. Consequently there are comparatively few who feel disposed to divert any considerable portion of their capital from the business which is paying well, and which they understand, to invest it in ventures concerning which they know but comparatively little. business which is paying well, and which they understand, to invest it in ventures concerning which they know but comparatively little. Gold mining in Nova Scotia has, thus far, been carried on almost exclusively by two classes of people. These are, first and mainly, the hard-fisted, stalwart sons of the soil—bold young men, of muscle and energy, but of small means, who have gone into gold mining as a regular business. Secondly, enterprising companies from the United States. Much success has been obtained by both classes. Among the former there are many who are, per force, speculators. They energetically make explorations for auriterous quarts: they Among the former there are many who are, per force, speculators. They energetically make explorations for auriferous quartz; they eventually find good indications; they open and test their ground, and find their discovery, it may be, a highly valuable one. But here it often happens that their pecuniary means are nearly, or quite, exhausted; and they can only hold their gold claims for sale, or, if they endeavour to work them, must, from the paucity of their means, convergence are a set a creat disadvantage. Thus it here carry on mining operations at a great disadvantage. Thus it hap-pens that many known and proved valuable gold-mining properties in Nova Scotia are in the market at moderate prices; and many such properties are said to be held unproductive in the hands of specula-tors, when they are almost necessarily so.

The richness of the Nova Scotian gold mines, and to some extent

During the past four years I have taken some pains to append to the Report which I have had the honour to submit to the Lieutenant.

* There is a range of Trappean hills, about 140 miles in length, along the shore of the Bay of Fundy, which is also to some extent auriferous.
† It may be observed that from having, in his official capacity as "Gold Commissioner," and "Chief Commissioner of Mines," had free access to, and having frequently visited, all the mines, of whatever description, in Nova Scotia during the past four years, the writer has had unequalled opportunities for observation and for collecting correct information relating to these mines,

Governor annually full statistics of all the gold mines of the prevince for the year, showing the average number of men suployed, the number and description of quartz mills in operation, the quantity of auriferous material raised and crushed, its yield of gold per ton, the total yield of gold, the maximum yield, and the average up from returns furnished periodically, according to law, and swon to by mining lessees and quartz-mill owners. The only point upon which the lessees would have an interest in making false return would be in furnishing their statement of the total quantity of gold produced; but as they pay royalty to the Crown upon the quantity appear more than it really should be. So long as we have not access to the private account books of mining proprietors, the most reliable and valuable evidence of the productiveness of a mina or a mining country, is the amount of gold it yields per man engaged in mining. In 1863, which was the first year in which anything like complete statistical returns were procured in Nova Scotia, the average yield of gold per man for the year was \$296. In nine months of 1864—the termination of the provincial fiscal year having been changed, which accounts for the fraction of a year—it amounted to \$324.66. In 1865 it reached \$664.80. In 1866 it attained to \$669.41. This was the aggregate for the whole province. Of course, that of some single districts far exceeded this. For instance, in one district, in 1866, the product of gold was equal to \$1382.86 per man. In this, as in all the other instances, the average is spread over the whole number of men engaged, directly or indirectly, in mining and "pospecting" operations, and the treating of auriferous quartz. I must be particular to state this very important fact:—The smallest of the above averages exceeds that of any other country in the moral when the province would necessitate the prolongation of this letter to, I fear, a tedious length; I shall, therefore, defer any further remarks upon the sublect to a future communication.

GOOD NEWS FOR TIN PRODUCERS.

GOOD NEWS FOR TIN PRODUCERS.

SIR,—Your columns of last week contain two items of news which, while some may read and forget them, convey to thoughtful and practical minds matter of the utmost importance. Not an hour before reading "my Journal," I had been thinking what a salvation it would be for British tin mining if some new applications for that metal could only be discovered at this moment. I was much struck and pleased, therefore, by observing that you mention no less than two inventions to this effect. One for making a beautiful imitation of gold, in which tin plays a part; and another, and by far the more important, for constructing amalgamated tin and lead pipes and elsterns for the conveyance and holding of water. This invention commends itself forcibly to the minds of all. To the miner, as calculated to open a field for the use of tin on a very large scale, and thus increase the demand for it; and to the public, as offering a cheap and practicable remedy for the vast amount of suffering, disease, and death, which are too well known to exist, from the use of water conveyed in pipes and cisterns constructed of lead. There cannot be a doubt that life is thus shortened, and a great number of obstinate cases, which baffle medical skill, could be traced to this cause. Who, then, would have leaden pipes or cisterns in his house, if he can have them of lead lined with tin, and thus remove a deadly poison, without additional cost? In a sanitary point of view the good that might be effected is incalculable, and of such deep importance, that it is to be hoped that influential persons will come forward and press the matter on public bodies and on the Government. The amount of tin required, should this valuable invention be adopted, will be enormous, and many thousands of people spared an early death, or an existence of prolonged misery. of prolonged misery.

PUDDLING BY MACHINERY.

PUDDLING BY MACHINERY.

Sir,—I have had my attention directed to an invention recently patented by Mr. Dormoy, of Paris, for facilitating the puddling of iron, the chief novelty of which appears to be that the rabbles, which are to be used in the ordinary way, are caused to rotate, and it is claimed that this causes the metal to be more forcibly agitated in all directions. The inventor remarks that the ends of the tools which enter the metal may be of any desirable form, and are arranged so as to agitate the metal as much as possible. There is also a central tool, which is to pass through the top of the furnace, andthis being rotated also at any angle, likewise assists the agitation of the metal. As soon as the metal begins to fuse the tools may be rotated, we are told, at a high speed, provided it be not so high as to throw out the metal. Mr. Dormoy says that, if possible, the mechanical movement should be obtained in such a manner that a speed can be imparted to the tools of 1000 revolutions per minute; these tools penetrating into the metal like a drill, divide and agitate it very violently, at the same time sensibly warming it by the rapid friction which takesplace between the particles of molten metal and the ends of the tools, which turn and are moved in all directions in the midst of the metal. When the metal is coming to nature, the tools used are worked with pulleys of larger diameter, and are heavier than the first, on account of the of larger diameter, and are heavier than the first, on account of the metal becoming harder, and a greater force being, therefore, required to work it. For the same reason the speed is considerably and grato work it. For the same reason the speed is considerably and gradually diminished, according as the metal becomes more difficult to work, from about 50 to 100 revolutions per minute being sufficient. The furfaces may be made with two or more doors to facilitate the work, on account of the quantity of metal which can be worked at once. It is proposed to have two straps upon each drum, the one serving for the small pulleys and first work, and the other, which should be longer, serving for the large tools with which the metal is cut, and which carry pulleys of greater diameter. By this means the shortening or lengthening of the bands when the tools are changed will be avoided.

With a view to provide for some of the inconveniences connected

With a view to provide for some of the inconveniences connected With a view to provide for some of the inconveniences consected with the invention, Mr. Dormoy suggests that the drums on which the cords or straps work should be long enough for the cords to have sufficient length to move over when following the movements or directions given by the puddler. When there is not sufficient space for a drum long enough, cheeks or discs should be placed at each end of the drum of sufficient height to prevent the cords coming off. It is sufficient to cross the straps to make the tools turn either to the right or left. The point or end of the tools, which should be very heavy, should work upon the sole of the furnace, to prevent adherence of the metal. The forms and dimensions of the tools employed are ceedingly variable, and I may observe that some of those suggested by Mr. Dormoy are of most remarkable and awkward shapesspoons, soldering-irons much bent about the head, and cheese-knives
being apparently the models from which the inventor has taken his
ideas, except in one instance, where he forms the rabble end of a
piece of wood.

Now I have no knowledge whatever as to Mr. Dormoy's profession.

Now, I have no knowledge whatever as to Mr. Dormov's profession Now, I have no knowledge wnatever as to this put, to judge from his invention, I should certainly guess that he is neither directly nor indirectly connected with the iron trade, or his neither directly nor indirectly connected with the iron trade, or his contraction of the contr neither directly nor indirectly connected with the iron trade, or he surely would not have made such proposals as he has. The idea of expecting a man to have any command over a rabble rotating at the rate of 1000 revolutions per minute is itself sufficiently absurd, but what can be said to the notion of causing these revolutions to be made by a hand running loosely on a drum, and simply suspending the tool by a pulley placed upon it? Well may he say that the inner end of the tool must be made heavy, but when he tells the puddler to keep down the end of his tool, so as to prevent the adherence of the metal to the sole of the furnace, he directs him to do what I believe to be a practical impossibility. He reminds me of the amateur salmon fisherman and the enthusiastic Scotch attendant, who exclaims—"Hoot awa' mon, keep down the end o' th' rod. What d'ye salmon hanerman and the enthusiastic Scotch attendant, which dive say, your leg's brokken? that may be, but ye mun keep down th' end o' th' rod, and run." Unless the puddler apply a strong downward pressure the band would not keep in the pulley a second, and that very pressure would be sure to lift the end off the sole of the furnace. I doubt very much whether the band could be kept in the tool-pulley, under any circumstances, for we must remember that 1000 revolutions

inute is not a low speed, even when both the pulleys are fixed, rith one in mid-air the difficulty is, of course, increased. The rith one in mid-air the difficulty is, of course, increased. The income in the invention would cease as soon as the band on trade, but the revolution would cease as soon as the band on trade, but the revolution would cease as soon as the band of the pulley, which, if the high speed mentioned were attended by the sound of the pulley, which, if the high speed mentioned were attended by the pulley, which, if the high speed mentioned were attended by in something less than the fifth of one second, we when the bands are crossed to obtain the reverse motion, and we when the bands are crossed to obtain the reverse motion, and we when the bands are crossed to obtain the reverse motion, and see the puddler would, not have some additional difficulty in go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod. This is a subject which I should go down the point of his rod.

HISTORY OF MINING-No. VI.

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HISTORY OF MINING—No. VI.

—In my last letter I intimated my intention to communicate next my views on a particular subject, which I shall postpone, next my views on a particular subject, which I shall postpone, next my views on a particular subject, which I shall postpone, next my views on a particular subject, which I shall postpone, next my views on a particular subject, which I shall postpone, next my views on a particular subject, which I shall post made, as yet has the discoveries of both these metals will be made, as ye that the discoveries of both these metals will be made, as ye that the discoveries of both these metals will be made, as ye that the discoveries of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the large imports from the Eastern of the Cornish workings, and the commercial world. That conditions of things in the commercial world. That conditions are without principle, but are a sort of commercial test, sanking desperate war upon all who possess property of it is possible by fraud to deprive them. It is from this cause he embarrassments of railway companies have sprung, and as are great consumers of copper, and to some extent consumers in the seminary of the part of commercial world. The failure of shock companies have sprung, and as are great consumers of copper, and to some extent consumers such articles of commerce as they have been accustomed to end wh but the property, whatever it may be—mine, or ship, or fac-is the same, and is unaffected by the struggles the "bears" are with the "bulls," or the panic of ignorant investors, who of take the trouble to ascertain the value of their own property. set take the trouble to ascertain the value of their own property, state of the law as it regards joint-stock companies is one of sements of the prevailing mischief. Companies are kept by stors in a condition of winding-up for such long periods as ver investors, and deter them from other ventures. I know an sec of a company which has been in the hands of the liquidators tears. This may be very profitable to liquidators, and the law-sith whom they are in league, but it is most mischievous to solders, to the reputation of joint-stock companies, however ske, and to the general commerce of the country. It is astonishist the Legislature did not foresee and provide against this evil, still more astonishing that some Bill on the subject has not lately introduced to Parliament. roduced to Parliament.

introduced to Parliament.

The can be no reason for want of confidence if the law will adelyprotect property from commercial fillibusters, and if investors may investigate and take council before they sell shares under offere of panies or eated by the "bears."

Beral resources are more valuable than ever they were. The least business of the country is still promising. I have now bear a prospectus of a mining company, headed by men of the sit standing. Nine gentlemen, men of superior personal and sest standing. Nine gentlemen, men of superior personal and ses reputation, members of Parliament, bankers, country gen, and smelters, are on the direction. Each has subscribed [4, and the firm with which one of these gentlemen is connected wheelbed 50000. Thus, real and progressive undertakings still the support of men of judgment and capital, while fictitious retentious schemes are either unable to find an existence, or a bubble, to burst as soon as formed.

THOMAS SPARGO.

PROGRESS OF MINING-AS A SCIENCE, AND SOURCE OF COMMERCIAL WEALTH .- No. VI.

OF COMMERCIAL WEALTH.—No. VI.

In all great undertakings there are many apparently unimmaters that require to be treated with great care and consision, the welfare of the whole depending upon proper economy hall as well as large things; amongst others, the architecture appeared to the construction of the excavations of lodes deserves to be led. In looking back at the workings of the lodes of 3 or 4 ft. in the old mines of Cornwall 100 years ago, we find the old may expert to the construction, and the sides of the mines were all hally supported by lock-pieces, fixed at right angles to the inclination of the walls, fitted and wedged with great nicety. It seems the average width of the lodes were so commonly found adapted his kind of mining, that it was hardly dreamed that lodes would have some of our agents been to the view that lodes must be sarily adapted to the size of man, or only a few feet in width, that we seen a vein of 2 feet wide worked for years in a lode from 30 feet wide, the agent supposing all the while that he was works the whole width of creative of the total form above a 24 fm. level I 8,000, worth of the loue; and from above a 7 lin.

8,000, worth of ore taken from the sides of the workings on the
vin on opening the lode to its full width of 33 ft. I have seen
re lodes filled with metal for 90 feet wide, and lead lodes so full
that were the state of the stat of the lode; and from above a 24 fm level ven on opening the lode to less than the periodes filled with metal for 90 feet wide, and lead lodes so lunger lodes filled with metal for 90 feet wide, and lead lodes so lunger to the tevery inch would pay for breaking for a width of 60 ft. again, I have heard agents from districts where the lodes were ally smaller, suggesting the idea that these large lodes would be a much smaller as they go downwards, in order to evade the sion of the form of mining that should be applied to workings and a large scale.

ith respect to the lodes going smaller in depth, that would cerly be more convenient for timberwork, but possibly not more liable to the adventurers, for where Nature has been prodigal of gifts it behoves man to extend his views, and rather to work up to scale, than to wish that scale to be reduced to meet his apparent venience; and there is no good geological reason for supposing clodes to existin anarrower form in depth. These great lodes are a formed in the great slate measures, existing, according to our geologists, for a depth of 20,000 ft., and from the position and extreme depth of the whole deposit of rock, and the argument lid be strengthened more in favour of lodes becoming larger than aller in depth. So there seems to be only one sensible principle respect to the lodes going smaller in depth, that would cer

to follow in these matters, which is to adopt a system of working suitable to the width of the lodes. As for timber, it may be applied to veins 10 or even 12 ft in width without disturbing the economy or the safety of working; but it is much more doubtful whether this can be said of lodes 18 or 20 ft. wide, and when these veins run from 20 up to 60 or 90 feet wide, to think of applying timber from wall to wall would be an absurdity. I have seen balks of timber, bound together by iron staples for a depth of 3 to 4 ft., used lock-wedged in lodes 20 ft. wide. In perpendicular lodes the lading of such stulls, however strong, must soon be too much for them, while in underlying lodes the weight of the superincumbent rock of the hanging wall is irresistible to all modern mechanical appliances, and could be supported by nothing but arches of the live rock; and, by reasoning on the working of lodes 50 to 60 ft. in width, it would appear that the transverse section of a mine of this sort ought to show live rock as the principal support of the walls. Timber is not only a highly expensive and insecure material to deal with, but the losses sustained by the running in or breaking down of the walls of mines very often lead to irreparable injury.

in or breaking down of the walls of mines very often lead to irreparable injury.

I think the best way to work on lodes many fathoms in width is by means of longitudinal tunnels (say) 30 feet or 25 feet diameter, taken up every 5 or 6 fathoms in depth, and carried side by side for the width of the lode, and leaving sufficient substantial rock above, below, and on the sides, to give the necessary strength to the whole, something upon the principle of the honeycomb. Objections may be raised to this mode of working with respect to the quantity of ore left in these arches, but in practice, as the whole workings would be open, the arches might be lightened judiciously in the best ore, or worked through from one arch to another, in holes, without much reducing the general strength of the structure of line rock. I have witnessed a mine that made 60,000. profit in eight years, brought to poverty by working the lode, which was 18 feet wide, by means of timber instead of arches, and by picking or pretending to select the ores underground instead of at surface, the selection of the ore underground being for the purpose of filling up the worked gunnises; but where ore is brangled through the vein-rock of a large lode it stands, as a matter of common sense, that the men working it on tutwork would never fairly pick the ore from the deads; and when we see that even in the light of day the girls select the ore so badly that the halvans pay for working over and over again, it stands to reason that to do such work underground must be to waste the resources of the mine. I am satisfied that for the good of future mining some much more exact system must be matured, and rendered generally applicable to the working the coet and security of mines. It is a subject that both touching the cost and security of mines. a subject that, both touching the cost and security of mines, is well worthy of the attention of practical mine managers, and likely to lead to mining prosperity in time to come.

M. F.

MINING IN WALES.

lead to mining prosperity in time to come.

MINING IN WALES.

SIR,—For the information of "Tyro," and other readers who wish for information on the Lead Mines in the district of Lianidloes, in Montgomeryshire, I beg to say that most of those in work are situate on the north-west side of the town, abutting on the east side of the Plynlimmon range of mountains; and the majority of them have been, and are now, worked by private parties, so that but little has been made known to the public as to the returns or the profits realised therefrom, though in some instances they have been large.

The DYLIFFE MINES, the property of Mr. John Bright, M.P., and a few other from the south west of this is the Diversion of the south west of this or the Privalle of the profits of the south west of this is the New Plynkinmon Mine, just commenced working by an influential and spirited company. They have driven in through a course of lead or for 70 fms. in length, made good returns of lead, and have erecfed powerful machinery to effectually develope it. To the east of this is the CWMRICKET MINE, now working by a few private gentlemen. Good discoveries of lead have been made at the shallow depth of 10 fms. It is situate about? In this to the south-west of the Lianidlose Raliway station, at the foot along the provided profit of the control of t

PRINCE OF WALES-"BULLS" AND "BEARS."

PRINCE OF WALES—"BULLS" AND "BEARS."

Sin,—Some parties, it appears, have made an objection to my remarks in the Journal of July 6, relative to the number of men working in the stopes in the back of the 55 fm. level. All I can say is, that on June 29, the day that I inspected the mine, the stopes were let to eighteen men, six to the east of the winze, and twelve to the west; the 55 end to drive east, by six men, and the 55 west, by six men, making in all thirty men in, and the back of the 55 fm. level, which was not then opened from end to end more than 12 to 15 fms. If this is not forcing the returns to an unwarrantable degree for market operations, and for the "bulls," and not the "bears," I should like for 'honest, honest lago" to tell me what is. There are also six men sinking the engine-shaft, and driving the 55 fm. level. Having but one shaft in the mine, it is, consequently, very badly ventilated, and it must be stifling work to have so many men in such a small compass of ground; and, moreover, they cannot do half the labour—thereby taking away the ore at considerably increased cost. To raise the last sampling of ore, I would not pretend to say how many men were employed stoping—I hardly think the captain could tell himself—for as many men as could possibly be employed were put on, and the 55 fm. level eart was partially suspended for that purpose. Now,

on the present of the state of

Many other instances I could name, but these will suffice for the present. The richer quality ore has nearly all gone to market, having been raised from the back of the 45 fm. level, consisting of grey sulphuret and black oxide of copper, and containing a percentage of silver for which the smelters have been giving something like 30s. per ton in excess of the copper it contained. In the 55 fm. level the lode is composed of the yellow sulphuret of copper (or copper pyrites), of not as good a percentage as that in the back of the 45 fm. level, and void of silver for market purposes, or that will pay for extracting. I am inclined to think that this mine, like Edward, Arthur, Zion, and many others in the same locality (and which I predicted at the time), will see its best days at its shallowest levels.—42, Cornhill, July 18.

W. MICHELL.

LUCY PHILLIPS GOLD AND SILVER MINING COMPANY.

LUCY PHILLIPS GOLD AND SILVER MINING COMPANY.

SIR,—In last week's Journal I see enquiry is made as to further information relative to this company. For the information of the shareholders, I beg to say that I am acquainted with the whole of the seven proprietors of this mine, whom I lately saw in New York; and from what I heard there, the mine is, although unworked, of considerable repute. I am also in receipt of a letter written by Capt. James to Mr. Cohn, in New York, since his inspection of the mine, an extract from which I append.—3, Austinfriars.

ARTHUR R. MOLLETT.

"SIR,—I have inspected Lucy Phillips Mine, and am happy to inform you that I found it everything I expected, both in quantity and quality. In fact, there is any amount of quarts, and I believe will be found rich in gold and sliver. The real width of the ledge has not been properly ascertained yet, but there is strong evidence of its being 40 ft. wide.

Rocky Bar, Aluras County, Idaho Territory, May 21."

THE SPECULATION AND PANIC PREVENTER.

THE SPECULATION AND PANIC PREVENTER.

SIR,—You have been making merry somewhat at my expense, nor do Iblame you for it. The facts, however, as you will perceive, scarcely justify it. For very many years I carefully considered the causes of the monetary panics which periodically occur in this country, and at length came to a definite conclusion concerning them. But I did not publish, knowing that it would be useless to call public attention to the subject, except under the pressure of severe suffering and distress. By-and-bye the panic of 1857 came, and a Parliamentary Committee was appointed to investigate the subject. Of that committee I know only one member, to whom I communicated the outline of my plan, and offord to give evidence before that committee, but received no encouragement. Nor was I surprised at this when I afterwards found that the gentleman in question was an important stockholder of the Bank of England, my proposal being inimical to the monopoly of that body. So matters progressed until the late panic of 1866, for although five gentlemen of great commercial experience—Mr. Lloyd, banker, of Birmingham; Mr. Foster, banker and merchant, of London; Mr. Slater, manager of the Fore-street Warehouse Company; the late Mr. Muntz; and Mr. Coleman, the eminent accountant—all gave evidence before the Commission of 1837, precisely similar to the opinions which I entertained as to the cause of monetary panics, neither of them was able to suggest a cure, consequently nothing was done. Then came the panic of 1866 spreading ruin and dismay on every side, and I felt it my duty the first opportunity to bring forward the remedy I had to propose. Well, Mr. Watkins proposed in July last the appointment of a commission to Investigate the subject. The Government, however, resisted it, but agreed that during the ensuing recess they would consider the subject, and at the commencement of the present session would either suggests some amendment themselves, or seat the question to a committee. Meanwhile, anxious to get bef

Meetings of Mining Companies.

MINERAL RIGHTS ASSOCIATION.

An extraordinary general meeting of shareholders (convened by requisition) was held at the offices of the company, Austinfriars, for the purpose of considering the propriety of dissolving the company,

Mr. PARKE PITTAR in the chair.

Mr. W. ASHMEAD (the secretary) read the requisition convening

Mr. W. ASHMEAD (the secretary) read the requisition convening the meeting.

The CHARMAN said as the directors were not responsible for, nor in any way connected with, the requisition, the best plan to adopt was that the representative of those gentlemen who signed the requisition should make his statement, to which he (the Chairman) would reply.

Mr. GEBHARDT said he had signed the requisition for the simple reason that he considered it time that the company should be wound-up. At the last meeting three of the directors distinctly stated that it was a matter of perfect indifference to them whether the concern was carried on or dissolved, their sole object being to do that which was best for the general interests of the shareholders; and he (Mr. Gebhardt) considered that object could not be better attained than by at once dissolving the company. It could now be easily done, inasmuch as, according to Act of Parliament, if the company had not done a single business transaction during the first welve months, its dissolution could be inexpensively brought about. He believed the only transaction during the legal twelve months had been the purchase of 865 shares in the Otea Copper Company, at 15s. per share, and he was told by Mr. Guiterriez that at the time that purchase was made the shares were perfectly valueless in the market, and the company insolvent. Inasmuch as two of the directors of the Mineral Rights Association were directors of the Otea Copper Company, and another the secretary, it became a question how far that transaction was legal; in other words, how far it could be called a legal transaction. As it was the determination of a number of the shareholders—he would not say the majority, for reasons he would presently explain—to wind-up the company, the simple question was, whether the easier mode would not be to adopt a voluntary liquidation, and thus avoid all litigation and bad feeling. If they proceeded further, the residue of the liability of 4L per share, which now hung over their heads. He altogethe

A SHAREHOLDER took exception to the threat held out by Mr. Gebhardt, that unless that section of the shareholders which was the largest and who were desirous to go on, adopted the views of the smaller section, who were desirous to wind-up, hostile proceedings would be commenced, and, therefore, all they had to do was for each to adopt the tactics of party warfare. To his mind, the mere fact that so large a proportion of the pald-up capital remained unexpended was one of the strongest evidences that could be adduced as to the sound judgment and wise discretion the directors had exercised during a period of uncountry of the strongest evidences that could be added to share the sound judgment and wise discretion the directors had exercised during a period of uncould be made, but he had perfect confidence in the assurances of the directors that no call would be made without the sanction of the shareholders. As one knowing something about the quarry with respect to which negociations were pending, he knew from personal enquiries that there were responsible persons, mind that the sanction of the shareholders, as not particularly and he also knew that a most favourable opportunity was presented for the Mineral Rights Association to make a very handsome profit, as he understood the arrangement would combine the contracts.

Mr. BECK thought they had better proceed in a friendly way; but that as there were dissentient shareholders, he considered it would be impossible to carry on the company's capital being employed in speculative granite quarries in Ireland.

Mr. Avens stated that the person who supplied the whole of the granite for the company's capital being employed in speculative granite quarries in Ireland.

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Mr. Avens stated that the person who supplied the whole of the granite for the contracts, and on the security of the contracts, and to have a for the propos

plete loss, there would still be at present upwards of 10001. profit on the

compares ross, near would sell to a precent would meet the shareholders in a con-mar. G. Batters believed the directors would meet the shareholders in a con-celliatory spirit. The simple question they had to decide was—was it desirable to continue the company? If it were the desire of the shareholders that the com-pany should be dissolved, he (Mr. Batters) believed their Chairman and direc-tors would be the first to acquiesce. As far as he was concerned, he should be afraid of the result of carrying on the business of granite quarrying. Mr. JACKMAN asked if granite could be considered a mineral?—Mr. Mun-culsion said it decidedly was so, and had been confirmed in the law courts in several cases.

Mr. JACKMAN asked if granite could be considered a mineral r—Mr. Munchisons and it decidedly was so, and had been confirmed in the law courts in several cases.

Mr. J. BATTERS read several letters from shareholders disapproving the proposal with respect to the granite company.

The CHARMAN said that although the directors' mouths were to an extent closed, yet he might state that there was a party, the proprietor of the granite quarries, who, from his peculiar position, had the opportunity to obtain contracts for the supply of stone upon a large scale, and at remunerative rates. In preparing the blocks for the Prince Consort Memorial (which had been supplied from the quarry in question), thousands of tons of stone were removed, which could be inexpensively converted into paving stones. Half the profits resulting from these contracts would be realised by the company, while the quarries and contracts would be taken as security. It was computed that the profit to the company would not be less than 10,000l, for the first year.

Mr. BUNYON (a director) said the board were anxious to do that which they considered would best promote the interests of the shareholders, and, if the majority were willing that the company should not be carried on, the board would glady acquiesce in the decision. He suggested that a circular should be forwarded to each shareholder, to ascertain his opinion upon the question.

Mr. Roberts thought the simplest way to settle the question was to agree to a voluntary winding-up, and then those desirous of continuing could form themselves into a new company.

A long and desultory conversation took place, during which it was mentioned that there was a large majority of the shareholders in favour of continuing operations, the numbers being 163 proxies for 13,000 shares, besides several proxies for 1600 shares which were received too late, against 43 proxies for 6360 shares. It was eventually agreed that the meeting should be adjourned until July 30, before which it was hoped some amicable arrangemen

WESTMINSTER MINING COMPANY (LIMITED).

The first ordinary meeting of shareholders was held at the account

house, on the mine, on July 13,
Mr. Thomas Thompson, managing director, in the chair.
The notice convening the meeting having been read, the directors and agents' reports were then read, as follows:—

Arr. THOMAS THOMPSON, managing director, in the chair. The notice convening the meeting having been read, the directors and agents' reports were then read, as follows:—

The directors have much pleasure in helig able to congratulate the share-holders on the condition of the works at this the first meeting of the company, which has been called on the nine to enable those who may attend to form a just appreciation of the value of the property. The shareholders will romened most efficient and profitable manner for working, and that this could only be effected by the expenditure of a large amount of capital. A very cursory glance at the works will convince the shareholders that this cripian object is in course at the works will convince the shareholders that this original object is in course at the works will convince the shareholders that this original object is in course and effective description, and now that it is fixed the directors can confidently assert that the future of the mine is no longer a speculation, but a certainty. Reference to the agents' report will show the extent of ore ground discovered and now being ind open in the 70. To render available to the best advantage the resources of the mine, the agents advise that the lode should be opened up at different levels, so as to develope a large extent of ore ground, and secure a last different levels, so as to develope a large extent of ore ground, and secure a last of the near the contract of the mine, the own which the present operations are concentrated, and in addition several parallel lodes are known to exist rich for mineral. A very me discovery has been made in the eastern parallel lodes are known to exist rich for mineral. A very me discovery has been made in the eastern parallel index and the second parallel lodes are known to exist rich for mineral. A very me discovery has been made in the eastern parallel parallel lodes are known to exist rich for mineral. A very me discovery and the working by two distinct companies. The eastern mine blds fa

The CHAIRMAN said the mine had that morning been inspected by upt. Jas. Nancarrow, of Shrewsbury, whose report had been placed in his (the nairman's) hands since the meeting had commenced. Capt. Nancarrow was independent inspector, and had never seen the mine before. He would read a report. It was as follows:—

chairman's haids since the meeting had commenced. Capt. Nancarrow was an independent inspector, and had never seen the mine before. He would read his report. It was as follows:—

Agreeably with your request, I have inspected the above-named mining property, and now beg to hand you my report thereon. Thompson's engine-shaft is sunk to the 70, and the said level driven 15 fms. east, where the lode is 4 feet wide, composed of a soft quartz and lead ore, and will give fully 2 tons of ore per fathom; I believe as you proceed eastward this level will further improve, for the dip of the ore is to the east, and the back of the level is richer than the bottom. The 60 has been driven home to the cross-course, which is from 40 to 50 fms. before the 70, and judging from the 60 you have a right to expect orey ground in the 70 home to the cross-course. At the old engine-shaft you have sunk to the 80, and I am informed that you have driven about 5 fathoms to the west and 15 fms. to the east of the shaft, and in each level you have a largelede, which no doubt will give a large quantity of ore. The water is up to the 79 at this shaft, therefore I could not see those 86 fm. levels. You will, however, resume the driving of these levels when you get the new engine to work, which will be complete in a few days, and also begin the shafting of Thompson's engine-shaft below the 70 fm. level, and from all these points you will be raising ore. Hitherto you have had but one shaft to get down with, and the whole force of water to contend against, but now, with the two engines and two shafts, you looked at the eastern shaft, which is down about 40 fms. from surface; the lode here is about 2% feet wide, and will yield from 12 to 18 evts. of ore per fm. I consider this part of the mine to be of great value to you, and might be worked as a separate sett. You have quite ground enough for two extensive mines, and the probabilities are that you will get down to a great depth, here without much water. I cannot close this report without saying tha

The CHAIRMAN said, after the very elaborate reports which had been ead, his remarks need be but very few. When the present board first took the company in hand they had to perform a very arduous task. To ensure success a arge amount of money had to be expended, and an immense amount of work to be performed; and this meeting has been called on the mine because it was immediate that any description could give the shareholders an adequate idea of what had been done. Those who were here to-day would, however, be able to

form some idea of it. He did not believe that any mine could show a greater amount of work so thoroughly well done in the time; and now that the machinery was ample to cope with the water, it remained but to lay out the ore ground already discovered in a miner-like way, so that it might be taken away economically and expeditiously, to ensure large dividends. It would be seen that the company were possessed of a very large sett, and that the eastern and western portion, although on the same lode, were entirely independent of each other. It was suggested by the agents, and he thought wisely, that these two portions should be worked as two distinct mines, by two distinct companies. It would be remembered that when the eastern ground first came into the possession of the Westminster Company it was heavily watered, like the western; but what had happened? A neighbouring mine had drained it, and there would be no necessity for the erection of any expensive pumping-machinery, consequently, not only would the great cost incurred in the western part be spared, but also a large monthly outlay for coals. The prospects in the eastern ground were most satisfactory; the mine might be said to be proved, and he thought that in any scheme that might be laid before the shareholders in the Westminster Company would be entitled to ask something handsome for this very valuable piece of ground. The outlay on the eastern ground would be very small. A drawing-machine would have to be erected, but not immediately, whilst the mine was returning ore at the present moment. In moving that the reports be received and adopted, he could but congratulate the shareholders on the possession of a great prize.

Mr. Hardding sked if the shares in the new company would be offered pro rata to the Westminster shareholders.—The Ollarhamax said, certainly; and if they are wise not a single share would be left for outsiders. The directors were not prepared at the moment with any definite scheme, but an extraordinary meeting and will be the prosent and th

Mr. Handing haked if the shares in the new company would be offered pro rate to the Westminster shareholders.—The CRAIRMAN said, certainly; and if they are wise not a single share would be left for outsiders. The directors were not prepared at the moment with any definite scheme, but an extraordinary meeting would shortly be called in London, when the matter would be fully discussed, and the necessary resolutions proposed. a magnificent property. There were mines in the neighbourhood which had raised 400, 500, and 600 tons of lead ore a month, and one almost immediately joining their own had given a profit of no less I than 100,000. a year. He would ask Capt. Evans whether he knew of any mine in the neighbourhood so laid out, and with more brilliant prospects before it, than Westminster? There were but 6000 shares, and, without being greedy, very much in the neighbourhood so laid out, and with more brilliant prospects before it, than Westminster? There were but 6000 shares, and, without being greedy, very much able.——Capt. Evans: There can be no question about a strain of the western a pround, it matters not, which are both highly valuable.——Capt. John Kitro: That is my opinion, and I will take my full complement of shares in any new company started to work the eastern ground.——Capt. Evans: And so will I.

The CHAIRMAN had not had an opportunity of seeing Capt. Nancarrow since he had been underground that morning. Capt. Nancarrow was then present, and the shareholders, no doubt, would like to hear a few words from him on the subject.—Capt. Naxcarnow said to require little or no powder; the whole of the lode would come away, thus securing ample ventilation, whilst very little timber was wanted. There was a splendid lode in the 70; he would not wish to see a better, and the ore ground would undoubtedly hold out to the cross-course, which was dipping to the east. The returns would shortly be very large. In the castern ground he considered they make the subject of the ore capt. The shareholders would come away, thu

CENTRAL AMERICAN ASSOCIATION.

An extraordinary general meeting of shareholders was held at the ompany's offices, Westminster Chambers, yesterday,
Capt. BEDFORD PIM, R.N., in the chair. ompany's offices,

Mr. R. James (the acting secretary) read the notice convening the meeting, and the subjoined circular, which had been forwarded to the shareholders:—

"The shareholders present at the late general meeting were informed that it would probably be necessary to temporarily provide some further capital for the purposes of the Javall Mine, unless considerable remittances of gold should speedily come forward.

The meeting expressed a strong opinion in favour of providing any such required capital by the issue of further debentures, rather than by a small call. The directors, therefore, now summon an extraordinary general meeting, to empower them to issuedebentures (if necessary) to the amount of 10,0001, in excess of the sam authorised by the meeting held on August 21, 1866.

These new debentures will rank with the other debentures of the company, and will bear the same rate of interest. They will be issued, like the other debentures, for a period of six months.

Shareholders desiring to take up any of the new debentures are requested to make application to the secretary of the company, not later than August 1. The amount of any debentures allotted will be payable on August 10. The advices from the mines are highly satisfactory and the directors are led confidently to expect early, regular, and considerable remittances of gold.

The debentures proposed to be authorised will be issued only if, and so far as, delay or disappointment in the expected remittances may render their issue necessary."

By advices from Col. Maury, dated Javall, May 2, it appears that over 130 men

delay or disappointment in the expected remittances may render their issue necessary."

By advices from Col. Maury, dated Javali, May 2, it appears that over 130 men were employed; that, the water-course and launders had been repaired, and that five cups were running, to be increased in a few days to six: a dam was nearly completed. Colonel Maury was taking out over 25 tons of ore daily, more than one-half of which was from an "hilo" of more than 1 oz. produce, and he had made a contract for the delivery of 30 cart-loads of ore per day at the turbine, at 40 cents, per monton. He had also run both the Pim and Pollock tunnels about one-sixth further than previously, and at diminished cost. In a month direct communication would be opened, by means of single continuous shafts, with the bottom of both Nispero and Scoorro, and they would be extracting the beautiful ore found there, giving 6 to 10, ozs., with a mule or horse windlass. The Pollock tunnel was being driven at the rate of 2 varas per day, the men working day and night. Col. Maury had secured two or three good timbermen—first-rate miners, Frenchmen, who had been many years in Australia; these he considered capable of doing all he would want done for at least one season. Col. Maury thinks he had discovered a general rule by which he can determine the formation and exact position of the rich "clavos" with which this mine abounds. Already he is pretty sure, but not certain, that he has discovered a beautiful clavo in the Socorro, and is now busy all and every day trying to determine its exact position in each level.

The CHAIRMAN said that it devolved upon him to move the resolu-

The CHAIRMAN said that it devolved upon him to move the resoluon to consider which the meeting was called. He had only just returned from ne mines, and would, therefore, leave Mr. Pollock to make some remarks as to a object. He moved. "That the directors be and are hereby authorised to bortion to consider which the meeting was called. He had only just returned from the mines, and would, therefore, leave Mr. Poliock to make some remarks as to its object. He moved, "That the directors be and are hereby authorised to borrow, in the name and on behalf of the company, any sum or sums not exceeding in the whole the sum of 10,000l, sterling, such sum or sums to be in addition to the sum authorised to be borrowed by resolution of the company in general meeting, held on August 21, 1866. And that the directors be and are hereby authorised to issue, in respect of any sum or sums so to be borrowed, debentures under the common seal of the company upon the same terms in every respect as the debentures issued under the authority of the said resolution of Aug. 21, 1866. Mr. POLLOCK, in rising to second the motion, though it unnecessary to enter into the particulars of the resolution, the shareholders being well acquainted with the subject. The directors had to provide the funds; he was ready to go on providing the money if the directors are authorised to take it from him. There are 26,000 shares, and a call of 11, per share would raise 26,000. A call of 11 per share would raise 26,000. A call might be more desirable in the absolute interest of the shareholders, but it seemed to be objected to by the majority of them, and so long as they preferred that money should be raised in another way, the directors were prepared to meet their wishes. If the remittances come forward as anticipated, the debentures would be speedily paid off.

The CHAIRMAN said that the whole 10,000l. might not be required. —A SHARE-HOLDER suggessted as the amount required was small, and probably only for a short time, he did not think it worth while to make a call.

The resolution was then put, and unanimously carried.

Mr. POLLOCK said that at present there was some difficulty in getting advices, owing to the absence of mail accommodation; they had formerly the advantage of having their letters brought down by the Chontales incurred. —The C

done for about 2001, per annum. They entertained the most amical wards the Chontales Company, who had a perfect right to make thanks were then voted to the Chairman for his conducts. Thanks were then voted to the Chairman for his conducts in the The CHAIRMAN acknowledged the vote, and expressed his bit for the CHAIRMAN acknowledged the vote, and expressed his belief to mossession of a property which would prove the richest in the wife. Pollock remarked that whilst the St. John del Rey had yielding only $\frac{5}{2}$ 6 ox. to the ton, theirs was extremely friable, and gather thanks of the conduction of th

SUMMER HILL MINING COMPANY (MOLD),

A general meeting of shareholders was held at 32, Redeross-street,
Liverpool, on July 12,—Mr. E. J. HALE in the chair.
The minutes of the committee of management since the last general
meeting were read and confirmed. The report of the committee of

management was read, as follows:-

management was read, as follows:—

The committee appointed on Jan. 2 last for the management of the abre mine have great pleasure in reporting, for the information of the abrebiden, that the works have been carried on with great energy an perservance, that their efforts have been as far crowned with success that the committee have been enabled to declare two dividends of 5s. per share each since the last smeeting, and that they have still a good balance in the hands of the baken, and a large jot of ore on hand, which would have been unable to wash the same, and get it ready for market. The committee have also much pleasure in amounts that the lead ore in the western driving looks even better than it did, and can thuse to yield a good amount of ore. The committee have paid the following

1867.—December cost-sneet 1867.—January "February ", March ", April ", May ", June ", Tributers, on account	2 46 39 40 43 34 42 50	17 16 5 6 11 14 0	9011230	 91 11 11 11 11 11 11 11 11 11 11 11 11 1	1	19 8	3 3	:: :: :: ::	Royalty	£ 6 5 6 17 9 0 14 6 8 10 17 4 11 7 10 15 4 7
	£299 19 75 17		3 6 6 5	 Bills	£19	0	6	••	Royalty	
Total May 7.—Dividend on 500 ahares, at 5s. } July 11.— ditto Bank commission, &c	£411 127 127 1	14 0 0 7	8 0 0 8							
Total owner diture	8007	0	4							

| Total expenditure | . £667 | 2 | 4 |
| the committee have received the following amounts from the sale of one; |
Amount due put unpaid at the last general meeting	. £ 22	12	
January sale, 12 tons	141	16	0
February sale, 0 tons	116	13	0
March sale, 7 tons	92	13	9
March sale, 7 tons	123	15	0
June sale, 10 tons	123	15	0
June sale, 11 tons	133	7	6
Bank interest	1	1	11
Balance at the bank at last general meeting	74	14	5

The committee appointed in January last were unanimously re-elected. Votes of thanks having been given to the Chairman and committee, the meeting separated.

DIPHWYS CASSON SLATE COMPANY.

The general meeting of shareholders was held at the offices of the

The general meeting of shareholders was held at the offices of the company, Craven-street, Strand, on Thursday,

The SECRETARY (Mr. John Hughes) having read the notice convening the meeting, the balance-sheet and profit and loss account, and the report of the directors were submitted. The accounts showed that there is 43751. 4s. owing to the company on slate accounts, and \$504, 19s. 7d. on other accounts, and that there is a cash balance at the bankers' and in had of 10251. 12s. 10d. During the year ending June 3 the sales of slates realised \$12,1211. 2s. 1d., and the balance of profit and loss applicable to payment of (indend was 74041. 14s. 2d. The directors' report states that the increase which has taken place in the quantity of slates manufactured during the payment of indend was 74041. 14s. 2d. The directors' report states that the increase which has taken place in the quantity of slates manufactured during the payment of the rock during that period, and the consequent diminution in the cost of web-ing the quarry. This is strikingly illustrated by the facts that in June, 1864, if required that 30½ tons of rubblish, top rock (including the fall) and slate not, should be removed in order to produce 1 ton of manufactured lates. Charging a ton of slates with its proportion of all the expenses incident to tap roducing, the cost to the company of a ton of slates in June, 1866, was 21. 3t. 10½d. In June, 1867, it required that only 12½ tons of rubblish, top rock (including the fall), and slate rock should be removed in order to produce 1 ton of manufactured slates. Charging a ton of slates with its proportion of all the expenses incident to the production, the cost to the company of a ton of slates in June, 1867, will be raised to 21. 17s. 2d., and in June, 1867, to 21. 0s. 8½d. Restricting the oundaring the slate rock, the facts stand thus:—in the production of the cost to the company of a ton of slates in June, 1867, will be raised to 21. 17s. 2d., and in June, 1867, to 21. 0s. 8½d. Restricting the oundaring s

development during the past year, and is changed in an expended are—the formation of levels, the roofing of chambers for underground workings, the roofing of chambers for underground workings, the formation of levels, the roofing of chambers for underground workings, the roof of the fall, and of hard.

The time is near at hand when all charges for development, and for every size purpose connected with the operations of the company, must be met, not by appropriate of the fall, and the feed of the company, must be met, not by applicable that there is reasonable prospect that even during the present yar, owing to the increase in the yield, and the reduction in the cost of production, the income will be fully adequate to bear this additional burden, and also to provide for a dividend of not less than 5 per cent, on the paid-up capital of the company. The directors have given much attention during the year to these curing of a market for the sale of the increasing produce of the quarry, is they have satisfaction in stating that they have been to a considerable cites successful. The balance-sheet shows that there was, at the close of the play, "stock of slates on hand" valued at 5519.7.s. 4d. It must not, however, being the states. On the contrary, the orders on the books at that date would sorb slates to the amount of 7700t.; and it should be borne in mind that then must necessarily be a large stock on hand at all times to allow of capose comprised of various sizes of slates being readily made up. The sum of 7404. Ide 3t. states of in the balance-sheet to be "applicable to payment of dividend." In order, however, to allow of such an appropriation of this amount it will be cessary to restore to the rever us account the sum of 5617.1 los. 3d. expected divident, but the part of the company, on the development of the means to be adopted for effecting this object, the question of dividend. Is amount, mode of payment, &c., are matters which the directors submit for the consideration and decision of the shareholders.

CHIMOGENE. - At a recent meeting of the American Polytechnic Association, Dr. Van Der Weyde made some remarks on the chemical composition of petroleum and the substance derived from it. The analysis of petroleum not unlike that of water. That it should be satisfactory the petroleum and taken from a pure source, for it is affected by the presence of different substances. taken from a pure source, for it is affected by the presence of different saies such as oxygen, hydrogen, arsenic, just as the water taken from the may be springs is impregnated with iron, sulphur, &c. He then gave the proport which all the petroloids—if we may use the term—contain their constituence of the proport which all the petroloids—if we may use the term—contain their constituence of the proport which all the petroloids—if we may use the term—contain their constituence with the formed by condensing the gas escaping from petroleum distillations, be used to produce ice. Placing some test tubes containing waterin a glass a little chimogene, he caused this latter to evaporate by exhausting the significant of the produced of the principle, on a large scale. It is like the boiler of a locome the water being frozen in the pipes. It is a singular fact that ice may be at a cheaper rate by ammonia than it can be collected from the lakes. A mogene is much cheaper than ammonia, there must be consequently less oproducing ice by its use.

IRON AND ELECTRICITY—Mr. Thomas Ingle, writing on this

IRON AND ELECTRICITY. - Mr. Thomas Ingle, writing on this sub IRON AND ELECTRICITY.—Mr. Thomas Ingle, writing on this sumingham, I addressed a letter to Mr. Bessemer, proposing the employment of electricity to eliminate the phosphorus, &c., from iron whilst in a state of fusion, and subsequently I conversed with him on the subject in the hall of the school but he did not appear then to regard the suggestion as likely to prove of any service. Lately I read in the papers that it has been employed by one of the service. Lately i read in the papers that it has been employed by one of the large manufacturers in Sheffield, and with the most important results, identical with those I had stated might and could be effected only through leading with the set I had been supposed to the production agency—namely, the separation of the phosphorus, &c., from their combinations with the iron, and thereby removing the great obstacle to the production steel. I have written to Mr. Bessemer to enquire if he had tried the experiments but have not received an answer, and I am curious to learn whether the suggested but have not received an answer, and I am curious to learn whether the suggested in made at Birmingham, in 1866, has Induced some party to make use of the plan I proposed; and perhaps someone can inform me if ozone is not generated as does not exert some influence on the molten mass when the electric current is reasonable through it? The reports are as yet so vague, that perhaps some of your prespondents may kindly afford further information on the subject."

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

GREAT WHEAL VOR.—The development of Wheal Metal continues statisfactory. The 194 fm. levelends at Ivey's are still holding on well, each being statisfactory. The 194 fm. levelends at Ivey's are still holding on well, each being statisfactory. The 194 fm. Invested with the work of the power of the Foxdale Mines (Isle of Man) will sell on The directors of the Foxdale Mines (Isle of Man) will sell on The directors of the Foxdale Mines (Isle of Man) will sell on The directors of the Foxdale Mines (Isle of Man) will sell on The Mining Journal, from a great mining authority, to the effect that Hings in the Mining Journal, from a great mining authority, to the effect that Hings in the Mining Journal, from a great mining authority, to the effect that Hings in the Mining Journal, from a great mining authority, to the effect that Hings in the Mining Journal, from a great mining authority, to the effect that Hings in the Mining Journal, from a great mining authority, to the effect that Hings in the Mining Journal, from a great mining authority, to the effect that Hings in the Mining Journal, in the Mining All Mining Mining

and as they have been for waited to the state of the stat

turned monthly.

WEST ST. IVES.—The excellent accounts which reach business WEST ST. IVES.—The excellent accounts which reach business deles about this property would appear to be fully justified. The mine would before this have assumed a very different aspect but for unfortunate circumsiances connected with the death of a large holder, by which a number of strands to be sold. The management, likewise, has been recently altered, and altogater affairs have been in a state of transition. However, all arrangements are now made, and doubtless a prosperous career is before the company. At the mediag to be held shortly no call will be made, nor will any be necessary. The important report which appeared in last week's Journal was from Capt. James Fran, an agent of great experience, who is the superintending inspector. His colinion that it will be a second St. Ives Consols is shared, doubtless, by others; indeed, Capt. Pope (late of Basset) was very decided in his views. The number of shares into which it is divided is large, too large—6000—but the price at presunts somsidered favourable for buyers.

initial cast. Pope clate of Basset) was very decided in his views. The number of shares into which it is divided is large, too large—6000—but the price at presunts sonsidered favourable for buyers.

MINING AND MINE MACHINERY.—I saw some time since an account of starting a supposed mine in the town of Oakhampton—putting up a large wheel, capstan, and shears, upon a scale as if there were a second Devon Great Consols in the town, which induced me to examine it pretty closely. It is extainly since machinery, and well put up, but more ill-spent money, according to all appearances, I never saw. I would as soon think of cutting a shool of fish as course of copper there. Capital should be better directed than in such strata seriat there, as thousands are thrown away in mining through the adventurers leing ill-advised by inexperienced men.—COUSIN JACK.

BUDNICK CONSOLS.—Preparations are being made for putting on swral other pares of men, in order to keep 20 additional heads of stamps going, by which the profits will be very considerably increased. This mine will soon be in a position to pay regular dividends.

OLD WHEAL RUSSELL AND SOUTH BEDFORD.—The long existing dispute between these companies is likely shortly to be settled, and the fine course of ore discovered by the Old Russell Company worked. It is one of the sheet bades discovered in this locality for many years, and it has been a source of regulating as a source of regulating and the second of the

From Mr. J. B. REYNOLDS:—It is very true that people cannot atted to business and pleasure at the same time, and, as nearly everybedy has been attending to pleasure lately, business has, of course, been neglected. But it well that buyers should have a good chance now and then, and surely the well which is now closing has been as good an one for buyers as the most nigardly could desire, and those who have been availing themselves of it ought savely to give special cheers for His Imperial Majesty the Sultan, and for our bare friends the Belgian Volunteers. The French Exhibition has been attracting many from our shores; but now that the gay acason in Paris is, comparatively speaking, drawing to a close the holiday takers and holiday makers will be coming back again, and soon the busite on the Stock Exchange, and the activity in business circles generally, will be as great as ever. The Sultan will be amongst his own people; the Viceroy quietly settled down in his own country—that Egypt of wonderful renown; and Englishmen will be "as they were," only, prhaps, more carnest than ever in the pursuit of wealth. Two or three very enouging facts reach me from friends interested in mines of considerable setting. If he news from WEST ST. IYSS is not unreasonably thought well of, but the shares are very low. PRINCE OF WALES shares, however, were once at afew shillings each, but they rose, and West St. Ives may go much better also. Time will tell. CHIVERTONS are firm, and should on no account be lost sight of.

From Messrs. WARD and JACKMAN:—We fully expected that

can be lost sight of.

From Messrs. WARD and JACKMAN:—We fully expected that Messrs. Wards with the characteristic of the control of their "pet," the Prince of Wals Mine. The sincerity of our so doing, however, will soon be made manifest: we know the truth is not at all times agreeable, and are constantly expenseing the difficulty of trying to please everybody, and doubt not they find as difficult at task as anyone. Some are very fond of measuring other people's can by their own measures, but we ask which is the most likely to give a disintenested and unprejudiced report on any mine—the holders of 1000 shares shretin, or the man who has no interest whatever, except to send his employers an honest opinion without fear or favour? The usual "how!" has been made at the inspector's name was not mentioned; we certainly did not think it necessary, having appended our own, but we now correct the "grave" error, and on ot think Messrs. Watson Brothers will deny that Capt. Abraham James, of East Pool Mine, Bedruth, Cornwall, is a man incapable of knowingly making a false statement. On reference to the report we published, in the Journal of July 8, page 444, it will be seen that the meaning of the report has been analy erverted, as there is no stope in the back of the 55; west of cross-cut, mentioned, and the report does not say so. The report says:—The back "of the 55" is being stoped by its was, which is a positively the case, but the report does not say the sawers without far of contradiction, that his report is correct in every particular, and adds "that the back of the 45 west is being stoped within 6 feet of the present each, and that to work the mine as at present is anything but doing selarly and legitimately."

WHITE LEAD,—An invention has been provisionally specified by

WHITE LEAD.—An invention has been provisionally specified by Mr. BONNEYILLE, of Parls, for obtaining white lead direct from the ore, by pouring the moiten metal into cold water, to render it as porous and bulky as possible; it is then dissolved in sulphyric acid, and the sulphate is treated with proligeous or oxalic acid, combined or not with tineal dissolved in water, and arried over the fire on trays. The vessels employed are either made of stone or wood, lined with lead, which become coated with a protecting covering of lead.

Wood, lined with lead, which become coated with a protecting covering or lead.

HOLLOWAY'S OINTMENT AND PILLS.—Rheumatism and Rheumatic Gest are the most dreaded of all diseases, because their victims know that they are also at no season, and at no age secure. Holloway's Ointment, after fomentiation of the painful parts, gives greater relief th... a my other application; but it must eligible rightly used to obtain this desirable result. It has been highly commended the product of the product of the product of the product of the product and less rigorous, and for repressing the sour perspirations and sooking the nerves. In many cases, Holloway's Ointment and Pills have proved the greates blessings in removing rheumatism and rheumatic gout, which had an also provious the provious provious the provious pr

GRYLLS'S ANNUAL MINING SHEET.

FROM JUNE 30, 1866, TO JUNE 30, 1867.

FROM JUNE 30, 1868, TO JUNE 30, 1867.

Containing the Quantity of Copper Ore sold from each Mine, British and Foreign—Average Price per 21 cwts., and the Amount of Money—The Average, Standard, Produce, and Price for the Year, both in Cornwall and Wales—The Total Amount of Ore, Fine Copper, and Money—Each Company's Purchase—And the Particulars of Copper Ore sold at the Ticketings in Cornwall from June 30, 1848, to June 30, 1867.

CORNWALL. Ore. Amount. ## 9,673 17 0

5,987 18 0

5,987 18 0

5,987 18 0

6,990 18 0

6,990 18 0

776 18 6

510 2 0

1,926 2 6

6,758 11 0

3,959 13 0

48,874 11 0

5,950 11 6

48,70 10 6

1,170 5 6

1,170 5 6

1,170 5 6

1,170 5 6

1,170 5 6

1,170 5 6

1,170 15 6

487 10 6

487 10 6

487 10 6

5,926 7 6

91,593 1 0

1,757 15 6

6,582 7 6

1,990 1 6

1,757 15 6

6,58 11 0

1,757 15 6

6,58 11 0

1,757 12 0

1,757 12 0

1,757 13 14 0

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1,875 10 0 Fursdon Gawton Copper Mine Glasgow Caradon Glasgow Caradon
Glasgow Caradon
Gonamena
Grambler and St. Aubyn
Great North Downs
Great North Tolgus
Great Wheal Busy
Great Wheal Busy
Gunnislask (Clitters)
Hallenbeagle
Hingston Down
Lado Bertha
Levant
Margery, Wheal
Margery, Wheal
Marke Valley,
Mollanear
Mollanear
Molland Mine
Nangles
New Cornish
New East Russell
New East Russell
New Teleigh 2,976 97 241 810 5,266 290 70 243 232 New Cornish
New East Russell
New Treleigh
New Wheni Martha
North Downs
North Grambler
North Grambler
North Treskerby
Okel Tor...
Par Consols
Pendaerves United Mines
Pendeen Consols Par Consols.
Pendarves United Mines
Pendares United Mines
Pendeen Consols
Phoenix Mines
Polharmon, Wheal
Polmear, Wheal
Prince of Wales
Prosper United
Rosewarne Consels
Rosewarne Consels
Rose, Wheal
St. Day United Mines
Setton, Wheal
Sortridge Consols
South Basset
South Basset
South Caradon
South Condurrow
South Crofty
South Prances
South Frances
South Frances
South Frances
South Tolgus
Sundry small mines
Tincroft
Tolcarne 107 2,436 87 871 553 4,778 233 920 2,111 144 5,433 102 79

5,829 186 1,965 312 1,168 266 979 238 690 77 131 1,306 862 1,447 98 6,029 79 2,037 Tincroft
Tolcarne
Trolelgh Consols
Trosavean
West Basset
West Caradon
West Maria and Fortescue
West Same
West Same
West Same
West Stoon
West Stoon
West Stoon
West Tolgus 287 98 6,029 79 2,037 WALES.

Copper Ores sold in Cornwall from June 30, 1866, to June 30, 1867. Copper ores sat 'tt Cornects | Tom June 30, 1806, it was 30, 1806, it was

Copper Ores sold in Wales from June 30, 1866, to June 30, 1867.

Amount of money ... £201,731 18 of | Average pitch 10 o Compared with the previous year,

Copper ores—decrease... £621 (21 cwts.) | Fine copper—decrease 1542 tons 15 cwts.

Amount of money ... £136,886 16 6

Totals in Cornwall and Wales.

Copper Ores Purchased by the Copper Companies from June 30, 1866, to June 30, 1867.

Purchasers.	Tons or	е. Т	ons e	opi	er.	Amou	nt.		
Vivian and Sons	22,915		1996	3		£135,117	16	10	
John Freeman and Copper Co.	9,205		801	16		54,801	15	9	
Pascoe Grenfell and Sons							16	8	
Sims, Willyams, Nevill, and C							0	10	
Williams, Foster, and Co							8	2	
Mason and Elkington							2	0	
Bankart and Sons							7	9	
Copper Miners' Company							14	9	
C. Lambert						35,072			
Newton, Keates, and Co			98	12		6,151	14	10	
Sweetland Tuttle, and Co						36,701			
Penclawdd Copper Co		*****				27,352	0	0	
A. C. Hadland							18	9	
Goole Alum and Smelting Co.				18	*****	5,476	18	6	
British and Foreign Copper Co		*****	48	16		3,284	19	9	
Landore Copper Co					*****		9	6	
Rawanhand Connan Co			90				- 8	9	

Sold at Ticketings in Cornwall from June 30, 1848, to June 30, 1867.

Date.	Ore.		mone			P	rouu	ce.	stan	.car	α.
1848	155,616	******	£ 825,080	2	6		81/4		£ 97	7	0
1849	144,983		716,917	7	0		81/4		92	11	0
1850	150,890		814,037	3	0		73/		103	19	0
1851	154,299		808,244	1	6		7%		101	0	0
1852	152,802		828,057	19	6		75%		106	12	0
1853	180,095		1,124,561	9	0		65%		136	16	0
1854	180,687		1,153,756	3	6		614		140	2	0
1855	188,969	*****	1,212,686	8	0		612		141	10	0
1856	209,305		1,283,639	8			63%		140	0	0
1857	198,697		1,276,844	12			612		139	6	0
1858	183,292		1,083,728				63%		185	1	Õ
1859	183,944	*****	1,079,075				63%		133	ê	o
1860	180,448	*****	1,079,403	4			612		133	18	ō
1861	176,097	*****	1,013,400	5	-		612		130	1	ñ
1862	186,662		977,017	9	-		612		127	13	ò
1863	176,285		872,474	4	- 7	******	63%		120	9	0
1864	166,707		858,586	ī	Ö	******	612		124		0
1865	164,940		806,833	10	Õ	******	612		125	2	ŏ
1866	148,777	*****	678,641	3	0		612		118	7	ñ
1867	125,679		547 689	8	6		057	*****	107		ŏ

FOREIGN MINES.

Mine: In sinking Henty's shaft below the 20 metre level the ground is still very soft, but the water is decreasing a little.

METALLURGY—ALLEGED NON-INVENTIVENESS IN ENGLAND,—There has been for some time an evident want of activity in our metallurgical processes. The causes of this are sufficiently obvious. The unfortunate attitude assumed by the workmen—more unfortunate for their future than for the future of masters—and the general disturbance of trade depression, there is another influence yet more potent, which has prevented the display of the finer sex shibiting at Paris; but beyond the influence of trade depression, there is another influence yet more potent, which has prevented the display of the finer specimens of English manufacture. Exhibitions have not, has a rule, been found profitable. The regular system of the workshops has to be disturbed, and the hance. It is, therefore, most fallaclous on the shared by having to assume that English manufacture is retrograding, because the display of our metallic industries at Paris is an imperfectone. A glance at the Catalogue will convince any one that our highest class manufacturers have not exhibited. Yet. Playfari, writing to Lord Taunton, thus expresses himself:—"I am sorry to say that, with very few exceptions, a singular accordance of opinion prevalled that our country had shown little inventiveness, and made but little progress in the peaceful arts of industry since 1862. Deficient representation in some of the changing warded to us, this plea must be abandoned. My own opinion is worely only of the confidence which might be supposed to attach to my knowledged the chemical arts; but when I found some of our chief mechanical and civil engineers immenting the want of progress in their industries, and pointing to the wonderful advances which other nations are making, when I found our chemical and even textle manufacturers which might have the confidence which might be supposed to attach to my knowledged the chemical arts; but when I found some of our chief

LONDON GENERAL OMNIBUS COMPANY,—The traffic receipts for the week ending July 14 was 13,0851, 14s. 1d.

Mining Gorrespondenge.

BRITISH MINES.

BRITISH MINES.

BEDOL-AUR.—H. R. Harrey, July 18: We have nearly completed the plat at the 100 yard level, and shall resume driving immediately, to intersect the east and west lodes; the ground is rather stiff for progress. The lode in the winze sinking below the 70 is looking more favourable for ore, and we are getting some shall stones of lead from it. There is no alteration in the tribute pitches.

BLACK CRAIG CONSOLS.—John Smitham, July 18: We have fixed the lift in the 54, and are now in regular course of sinking Harriet's shaft. Since my report of the 11th inst. we have holed Harriet's cross-cut north in the 54 to the 14th inst. we have holed Harriet's cross-cut north in the 54 to the 44 sat of No. 1 cross-cut.

No are cutting down the bottom of said level, which is between 2 and 3 ft. higher than the bottom of Harriet's cross-cut; this is producing from 6 to 7 cwts. of lead ore per fathom. We have holed the level west from the above cross-cut to No. 3 cross-cut, we have some small branches of lead here. The stopes in back of the 6, below the 43, are producing about 20 cwts. of lead per fathom. We have sampled 30 tons of lead.

BOSWORTHEN AND PENZANCE CONSOLS.—R. Pryor, F. Hosking, July 18: Jones's shaft is sunk about 8 fathoms below the shallow adit level, and we hope to reach the deep adit level by the end of this month. The lode in the shallow adit level is without much change to notice since our last.—Carn Brean Lode: The lode in the shallow adit level, north of Daniel's shaft, is large, and worth full 8, per fm. The lode is the stope in back of this level is most hard. The lode is the stope in back of this level is most hard and interest and quality as it has been for some time past.—South Lode: The lode in the shallow adit level, and the shallow adit level, and the shallow adit level, and in a shaft level in the shallow adit level, and in the shallow adit level is without much change to not be shaft level and the shallow adit level, and we hope to reach the deep adit level shaft level and turners; q

about the same value as Capt. Northey last reported. The 60 is being pushed on with all dispatch; no particular change. The stopes throughout are of the same to make the same to the content of the cont

1½ foot wide, and worth 1 ton of copper ore per fathom. The lode in the 30 fm. level east, and east of Rowatt's rise, is 15 inches wide, and worth 1 ton of ore per fathom.

EAST CHIVERTON.—J. Grose, J. Nancarrow, July 11: Since your last general meeting we have sunk Bartlett's engine-shaft 23 fms. from surface; this shaft is on the junction of the elvan and killas, which is quite congenial for the production of silver-lead ore. At this depth the water increased so rapidly that we were obliged to suspend the further sinking with horse-power, until we get the engine and flat-rods to work. This we are pushing on with all possible dispatch, and we calculate to get the engine to work the early part of next week, after which we shall resume the sinking of the shaft with all possible dispatch, and we calculate to get the engine to work the early part of next week, after which we shall at sone commence a cross-cut north to intersect the lodes that produced the rich stones of ore at the boundary shart, and we fully think the chances will be great of meeting with a productive lode. When this lode is intersected we would recommend opening east and west on its course, and as well continue the cross-cut further north, to intersect other known lodes traversing that part of the sett. Since the engine has been idle we have had every part thoroughly examined and repaired, and by so doing it will effect a great saving in the consumption of coals, &c. In conclusion, we have to remark that although the water has impeded our progress in intersecting the lodes a few weeks, there shall be nothing delayed on our part in prosecuting the mine, and we fully hope the time is not far distant when we shall be in a position to give you a more cheering and prosperous report.

EAST GUNNISLAKE.—J. Phillips, July 18: In the 54 fm. level we have not yet met with the lode west of the cross-course, but we find the country through which it is passing highly impregnated with mineral, each of the heads carrying small strings of ore, consequently this

level, and we have now set a cross-cut to drive north, and expect to interese the lode in three weeks from this time. The winze is sinking below the 15, north of Hosking's shaft, and we hope to communicate with the 25 fm. level cross-cut in three weeks, when we shall be well ventilated, and be in a position to drive east and west at that level on the course of the lode.

EAST ROSEWARNE.—C. Glasson, July 18: The lode in King's shaft, sinking below the 95 fm. level, is 12 inches wide, yielding good stones of copper ore, but not enough to value. There is no change to notice in the 95 fm. level, west of King's shaft, since my last report, still producing stones of copper ore, but not enough to value. There is no change to notice in the 95 fm. level, west of King's shaft, since my last report, still producing stones of copper ore. In the 95 fm. level, east of King's shaft, the lode is 10 in. wide, worth 55, per fm. In the rise in the back of this 18 yellow have met with the slide, which has disordered the lode for the present. The lode in the 85 fm. level, west of King's shaft, are worth 65, per fathom; Two stopes in the back of the 85 fm. level, west of King's shaft, are worth 65, per fathom; Two stopes in the back of the 85 fm. level, west of Hing's shaft, are worth 65, per fathom; Two stopes in the back of the 85 fm. level, west of Hing's shaft, are worth 65, per fathom; Two stopes in the back of the 85 fm. level, west of Hing's shaft, are worth 65, per fathom; Two stopes in the back of the 85 fm. level, west of Hing's shaft, are worth 65, per fathom; Two stopes in the back of the 85 fm. level, west of Hing's shaft, are worth 65, per fathom; Two stopes in the back of the 85 fm. level, west of Hing's shaft, are worth 65, per fathom; Two stopes in the back of the 85 fm. level, west of Hing's shaft are worth 65, per fathom; Level, west of Hing's shaft are worth 75, per fathom; Level, west of King's shaft, are worth 76, per fathom; Level, west of Hing's shaft are worth 76, per fathom; Level, west of Hing's shaft are

days, when we shall resume driving the 90 fathom level ends, east and west, in good tin ground. The lode in the 76 west is worth 71, per fathom, and the ground favourable. The lode in the stope in the back of the 76 is worth 81, per fathom.—Buck Lode: In the 62, driving east, the lode is without change.—Owl Lode: The 40 north, from Reddipper shaft, is opening tribute ground. The 20, south from Saveall's, is not looking as well, but a change which has taken place in the ground would indicate an improvement in the lode shortly. The 20, north from West Buck shaft, is very promising. The lode in the 10, north from same shaft, is worth 71, per fathom. The 10 north, on the branch, is improving. The diff north is without change.—North Lode: The lode in the 40 east is whoth the asset is without change. The lode in the 20 east is poening tribute ground.

hange. The lode in the 20 cast is worth 5t, per fathom.—Reddipper Lode: The east is opening tribute ground.

EAST WHEAL GRENVILLE,.—G. R. Odgers, William Bennetts, July 17: We are no alteration to report in any of the underground-operations since our last dvice. We have to-day sampled (computed) 92 tons of copper ore.

EAST WHEAL LOVELL.—R. Quentrall, July 17: The mine is looking very rell, the various places in operation being worth in the aggregate as much as soorted last week.

EAST WHEAL LOVEIL.—R. Quentrall, July 17: The mine is looking very well, the various places in operation being worth in the aggregate as much as reported last week.

EAST WHEAL RUSSEIL.—J. Goldsworthy, July 17: At Homersham's shaft, in the 150 cross-cut north, the middle or main lode has been cut into several feet, capel, Iron, and a little mundle. In Rde's cross-cut, in the 140 north, the north lode has been cut into nearly? fathoms in the bottom of the end, which is composed in the furthest point principally of brown iron, intermixed with a little quarts, with speeks of malleable copper; lode hard and troublesome to explore. In the 130, nearly perpendicular over when in the lode about 2 fathoms, intermixed with a little gossan part of the lode was met with, and 'presented a very line appearance. In the 140 cast the lode is 2½ feet wide, composed of capel, quarts, péach, mundle, and copper ors to the amount of ½ ton per fathom. In the stope in back of the 140, east of Friend's winze, the lode is 3 feet wide, producing ½ ton of capel, quarts, péach, mundle, and copper ors to the amount of ½ ton per fathom. In the stope in back of the 140, east of Friend's winze, the lode is 3 feet wide, producing ½ ton of capel, quarts, péach, mundle, and copper ors to the amount of ½ ton per fathom. In the stope in back of the 140, east of Friend's winze, the lode is 3 feet wide, producing ½ ton of the stratum is moderately easy to explore, and highly charged with mineral. Ry calculation, which is an important point.

FURSDON.—M. Collins, July 18: The stope in bottom of the adit level west 1 set to six men, at 27, per fim., and 10s. in 1. tribute, at 10s, per unit. The lodes is looking well, and if it continues as at present it will yield us sufficient to pay the working cost of the mine. No other alteration.

GAWTON COPPER.—G. Rowe, G. Rowe, Jun., April 13: The ground in the 70 fm. level cross-cut is improving in character as we approach the lode, and rapid progress is being made. The lode in the 60 east is without change sin

being worth it cans of ore per fathom. The lode in the stopes in back of the level is worth 4 tons of ore per fathom. The lode in the stopes in back of the of the so, east from cross-cut, is worth 5 cans of ore per fathom. The lode in the stopes in back of the same level, west from Moor's winze, is worth 10 tons of ore per fathom. The lode in the stopes in back of the same level, west from Moor's winze, is worth 10 tons of ore per fathom. The lode in the stopes in back of the same level, west from Moor's winze, is worth 10 tons of ore per fathom. The lode in the rise in back of the So, west from old nump, is worth our crospectes exceedingly cheering.

GOTHIO.—J. Lester, July 18: The engine-shaft is now down 10 fathoms below the 80. We intend shafting it about 5 red desperabore putting in pumpsy the during the sinking. The rain is coming down in torrents; but if it clears up a little 1 will go to Aberystwith for timber and iron for shaft. I will send of the stope in the stope of the stope in the stope in

Brother's Engine-shaft: In the cross-cut south at the 75 fm, level the ground is just the same for driving as for some time past. We have met with several cross-heads and branches during face week, letting out a large quantity of water, which we believe is coming from the tin lode, a little in advance of the present end. In the 75, driving west on the Baddern lead lode, the ground within the last day or two has somewhat improved; the lode in the end is from 2 to 3 feet wide, composed of mundic, flookan, spar, and lead, and the water issuing thereform still increasing.

end. In the 75, driving west on the Baduern lead lode, hos ground within acceptant dry two has somewhat improved; the lode in the end is from 2 to 3 feet wide, composed of mundle, flookan, spar, and lead, and the water issuing therefrom still increasing.

GWYDYR PARK.—W. Smyth, July 17: We have reached the bottom of the lod shaft, which is about 8 fm. There is a level driven west 3 fms., about 8 ff. from the bottom. In the bottom of this level there is a very loose vughy lode, about 1 ff. wide, of spar, gossan, and lead ore, worth of the latter 1 ton per fm., and easy ground for stoping. In the eastern end of the shaft the lode is 1 ft. wide, of spar and lead ore, worth of the latter 14 cwts. per fathom, for 10 ff. high, and lead continuing upwards. There is a branch gone across the shaft, and on the south lode there is a level commenced, in the back of which, and continuing down half way in the end, there is lead from 3 or 4 in, wide, with a loose lode; there is also strong lead in the north wall of the shaft. In the bottom of the shaft the lode is 5 in, wide, and showing good lead ore, and large rughs, out of which I expect will improve in a few feet sinking. In the western oad near the bottom the lode is 5 in, wide, and showing good lead ore, and large rughs, out of which he water cozes freely. In conclusion, I beg to say that, from present appearances our prospect are very favourable.

AREWOOD.—J. Race. July 16: In the level going north at Scar Head the stratum is strongly mineralised, which I think is an indication that we are near cutting some vein. Stope No. 2 is partly cat up to the cross vein, will be a cross took, and the stratum is strongly mineralised, which I think is an indication that we are near each of the stratum is strongly mineralised, which I think is an indication that we are near each of the stratum is strongly mineralised, which I think is an indication that we are near each of the stratum is strongly mineralised, which I think is an indication that we are near each of the stratum is str

the south branch is worth 15 or 16 cwts. of ore per level to Trough they are getting out of whole groutherun; I think this level will now open fast. The

the run; I think this level will now open last. The 24 tons of ore off to-morrow.

HOLYFORD.—J. H. Rodda, July 14: In the 40 end, north of the lode is 1½ ft. wide, mixed with a little copper ore, but not to ground is hard for exploring, consequently it is suspended for the lode in the stope in the back of the 20 fm. level, south of will have a little improved, now worth 16t, per fathom. In the stope in the level, north of engine-shaft, no lode has been taken down as the level, north of engine-shaft, no lode has been taken down as to the stope in the back of same level, on western lode, does not los as it did last week; I think this falling off is only temporal is making on the western wall of the lode, and a good lovel, as it making on the western wall of the lode, and a good lovel, as it is making on the western wall of the lode, and a good lovel, as it will entire the last month; the ore-bearing part averages frow wide. The winze in the bottom of the 20, north of engine-shaft, suspended, in consequence of the ground being hard for exploring ing nufficient quantities of ore to pay its cost; the lof or exploring ing nufficient quantities of ore to pay its cost; the lof or exploring ing nufficient quantities of ore to pay its cost; the lof or exploring ing nufficient quantities of ore to pay its cost; the lof or exploring ing nufficient quantities of ore to pay its cost; the lof or exploring ing nufficient quantities of pre to pay its cost; the low of the pay dress of cross-cut, is also suspended, under similar circumsress. We tribute pitches, two men in each, at 8t, per ton, and to pay dress haftmen have been engaged during the last month in the adit on the lode, which has a strong masterly appearsace, and about he ground is easy for progress. Mr. John Fetcherick has taken from this lode with him, and will, no doubt, explain all matter the menting. He has also my views as to pumping the wate mine, which I would not recommend doing after seeing the wate mine, which I would not recommend doing after seeing the wa off to-morrow.

HOLYFORD.—J. H. Rodda, July 14: In the 40 en
the lode is 1½ ft. wide, mixed with a little copper or

NORTH TRESKERBY.—R. Pryor, J. Tregoning, T. Jenkin, shaft: The lode in the 120 fm. level, east of shaft, is 2 feet wild stones of tin—a kindly lode. The lode in this level wast of the local wa shaft: The lode in the 120 fm. level, east of shaft, is 2 fe that stones of tin—a kindly lode. The lode in this level, west of shaft, is 2 fe that provement; this end is going back all in whole ground, and is likely isself a good improvement.—Tresidedr's Shaft: The lode in the 120 fm, level, east of shaft, is 4 feet wide, composed of mundic, peach, and spars, with good sease copper ore. The lode in the 120 fm. level, east of shaft, is 2 feet wide, composed of mundic, peach, and spars, with good sease copper ore. The lode in the 120 fm. level, east of shaft, is 2 feet wide, and producing 1½ ton of ore per fathom. The lode in the 120 fm level, east of shaft, has undergone a very favourable change, and, indiging from green fundications, being near the shoots of ore driven through in the level along great improvement may be expected at this point. The lode in the winsan ling below this level is producing 1½ ton of ore per fathom. The level is in the lode in the winsan lode in the very expected at the point. The lode in the winsan lode in the very expected at the point. The lode in the winsan ing below this level; as the staff, is 4 feet wide, and producing good good for the producing the producing 1½ ton of ore per fathom. The level is in the lode in the winsan in the level; cast of shaft, is a larger, and has a more promising appearance for footper ore, with every appearance of an improvement.

NORTH WHEAL ROBERT.—William Godden, July 16: The 62 has benefit tended east of Murchison's shaft, on the lode, 60 fms. Throughout this drug the lode bears a very promising character, and in places yields saring with the lode bears a very promising character, and in places yields saring with look so well in the adit by cross-cuts. When the work accorded in the subcomposed or capple, gust a love of the producing good in the day expect to discover valuable lodes.

OLD GUNNISLAKE.—H. Rickard, July 17: The ground in the 48, east fms.

we may reasonably expect to discover valuable lodes.

OLD GUNNISLAKE.—H. Rickard, July 17: The ground in the 48, east 1.

Parker's shart, is hard for driving, the present price being 135 per fations, six men, stented 1 fathom. I have taken four of the men from the 48 west, six men, stented 1 fathom. I have taken four of the men from the 48 west. Some put them to drive the deep adit west towards Parker's, in order to regulate communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it being very seat the communication as fast as possible, if the air will allow us, it believes the communication as a seat will be allowed the communication as a seat of the communication

OLD WESTMINSTER.—F. Evans, July 16: In driving the 92 west we have a output of the lode is et all the core occasionally; but as the main part very promising lode, producing a little ore occasionally; but as the main part very promising lode, producing a little ore occasionally; but as the main part very promising lode, for an improvement of value ere long.

The lode is et all the producing of the level, and the indications are of the most facurable character for lead. The 92 east is just as lead reported, but the most facurable character for lead. The 92 east is just as lead reported, but the most facurable character for lead. The 92 east is just as lead reported, but the lead in the 180 east is still small, worth 41, per fathom, and be leaded in the 180 east is still small, worth 41, per fathom, but is looking very The lode in the 180 east is still small, worth 41, per fathom, but is looking very promising in width, and no north or south wall; in the stope in bottom of this for 6 in width, and no north or south wall; in the stope in bottom of this level in the 180 east the look is provided in the 180 east the look is level to look in the 180 east the look in the 180 east the look in the 180 east end is worth 50, per fathom. The look in the 180 east end is worth 41, per fathom. The look in the 180 east end is worth 41, per fathom for 6 in the 180 east end is worth 41, per fathom for 6 in in width, and no south wall. In the 96 in. level north 181, per fathom for 6 in in width, and no south wall. In the 96 in level north 181, per fathom for 6 in in width, and no south wall. In the 96 in. level north 181, per fathom for 6 in in width, and no south wall. In the 96 in. level north 181, per fathom for 6 in in width, and no south wall. In the 96 in. level north 181, per fathom for 6 in in width, and no south wall. In the 96 in. level north 181, per fathom for 6 in in width 181, per fathom for 6 in in width 181, per fathom for 6 in in width 181, per fathom for 181, per fathom for 181, per fathom for in the 90 in level

REDMOOR.

which, of course, is against the driving; we are using every means to get on as fast as possible. The ground is a little easier, but as yet no lode or any other change of importance.

REINNIE LAXEY.—W. H. Rowe, July 16: For more than three weeks past our wheel on account of the dry weather) has been almost at a standstill, and the result is that not only has the sinking of the sump been suspended, but the water has risen in the engine-shaft above the 20. Heavy rain has now set in, water has risen in the engine-shaft above the 20. Heavy rain has now set in, and it is possible (should the wet weather continue) the shaft will be again clear of water in about a week. In the rise in the deep adit we have entered another of water in about a week. In the rise in the deep adit we have entered another of water in about a week. In the rise in the deap will be again clear of water in about a week. In the rise in the deap will be again clear of water in about a week. In the rise in the deep adit we have entered another one of the deep control of the following bar shall continue to keep its relative position with the sump well "posted up" by dialling. The rise is now 6 fathoms above the roof of the deep "posted up" by dialling. The rise is now 6 fathoms above the roof of the deep "posted up" by dialling. The rise is now 6 fathoms above the roof of the deep "posted up" by dialling. The rise is now 6 fathoms above the roof of the deep "posted up" by dialling. The rise is now 6 fathoms above the roof of the deep "posted up" by dialling. The rise is now 6 fathoms above the roof of the deep in both the sump (when we left it) was 7 fathoms below the 30, leaving about 11 fathoms of intermediate ground.

ROSECLIFFE AND TOLCARNE.—R. Pryor, J. Phillips, July 17: We set the following bargains on Friday last:—The 50 cross-cut to drive north of Lindo's engine-shaft, by six men, at 41 tos, per fm.; the end is in a boautiful channel of mineralised ground, but the ground has been a little harder than usual, which is only temporar

condition, and the programmer of the programmer

cients have not been down below our present 6-fms, stope, and the lode is increasing in value in depth. I am very pleased that the nine is opening up so well, and making such good profits at so shallow a depth; you have a lasting and nimble mine here.

SOUTH CONSOLS,—Robert Jackson, July 18: At Hitchins's engine-shat, in the 140 cross-cut, we are pushing on with all possible speed; the ground continues favourable for driving. In the 55, east of Axford's pitch, we have communicated with the 50, and the men removed to drive south in the 140 fm level. The tribute pitches are looking much the same as for some time past. SOUTH CONDURROW.—J. Vivian and Son, W. Williams, July 13: The 11, east and west of King's shatt, has been driven 3 fms. each way, the lode being about 2 feet wide, composed of flookan and quartz; in driving this level north on the cross-course a brauch of quartz, 4 in. wide, has been intersected; the ground continues favourable for progress. In the 61, east of King's shatt, the lode is 2 ft. wide, composed of flookan and quartz; in driving this level north on the cross-course a brauch of quartz, 4 in. wide, has been intersected; the ground continues favourable for progress. In the 61, east of king's shatt, the lode is 5 ft. wide, without either wall being seen, and presents an exceedingly promising appearance; the matrix being chlorite and quartz, containing the hroughout, together with yellow and grey copper ore. This end is letting out a large quantity of water, and appears to be draining all the upper levels. In the 51, west of King's shaft, the lode is 2\cdot ft. wide, composed principally of soft spar, containing yellow and grey copper ore; this end has been much improving in appearance within the last few days. The stope east of the winze, in the back of the 51, has improved, and is now producing copper owe worth 301. Per fathom. West of the winze the stope is worth about 101, per fathom. The 48 and 30 fm levels, west of Vivian's shaft, are producing copper owers of the winze, in the same part

lode in the rise above the 20 east, is 2 ft. wide, composed of quartz, gossan, and prian, in which we find stones of grey ore. The lode in the winze sinking below the adit, is 2ft. wide, composed principally of gossan and quartz.

ST. IVSE WHEALA ALLEN.—John Nancarrow, Joshua Daniel, July 15: The Carbona lode, in the 40 east, has improved for tin, which is going down, while the mundic is extending eastward, and from its general appearance is likely to become more valuable shortly. There is no alteration to report at Richards's.

TIN HILL.—W. H. Wick, Irom which we are now breaking some spleadid west lode in the 10 fm. level, from which we are now breaking some spleadid winstiff. By next week we shall be able to ascertain its size, bearing, and probable value, and shall be able to send a good account of it.

TREVENEN AND TREMENHEERE.—J. Medlyn, C. George, July 17: Trevenen shaft is poor and suspended. The 200 fathom level end, west of this shaft, has become hard and poor, and suspended also. The 197, east of shaft, yields a little stu, but not sufficient to value. No. 1 stope, in the back, is worth 44. per fathom; No. 2, 6, per fathom. The ground in the 187 is moderate for driving, but the productive ground is not yet reached in this level. The 172 is worth 30, per fathom. This level seems to be below the great spar which divided the lode in the 162 and the level above, if so we shall have a great length of productive ground here. The 162, driving on the north part of the great horse of spar, is poor at present. A winze sinking below this level, 8 fathoms behind the end, is worth 20, per fathom. Two stopes in the 150 are each worth 13, per fathom. The stope in the 125 is worth 7. per fathom.

YIGHA AND CLOGAU.—W. J. Holman, July 18: The discovery of rich ore in the new or No. 5 sink, mentioned in my last report, continues; the gold is increasing in quantity, and the lode is widening out. At the No. 2 stope there is also visible gold coming in at the bottom. In No. 4 sink occasional stones with visible gold, and

THE MINING JOURNAL

engine at the stamps is idle, there being now plenty of water. Gold received at the offices of the company since last report 66 czs. 4 dwts.

WEST CARADON.—Wm. Johns, N. Richards, July 16: We are very much pleased with the appearance of Vivian's, lode, in the 170 fathom level west, which is 2½ feet wide, and will, in our opinion, ere long open out something good. Allen's lode, in the 170 fathom level east, is 2 feet wide, which is composed of quartz, mundic, and mixed up with copper ore throughout—saving work. In the 126 fm. level cross-cut north we have just cut into the main part of Jope's lode, and so far as we can see of it is pretty well, producing stones of ore; we shall be able to say more about this in our next report. In the 116 west, on the same lode, we have a good branch of ore in the bottom of the end; and, in order to ventilate this end, and prove this piece of ground effectually, we have commenced to sink a winze below the 104, which will be hastened down as fast as possible. In the most southerly lode cut in the 22 fm. level cross-cut, south of Allen's, we have an increase of water, with an improvement in the lode; such indications encourage us to believe that the lode will ultimately lead to successful results. The sinking of Marina's shaft is going on in the usual way; and we cannot but again repeat that the nature of the ground is everything that can be wished for the production of mineral when the lode is reached.

WEST GOLOLPHIN.—J. Vivian and Son, J. Pope, jun., July 18: Hope lode, in the 15 west, is worth 15t, per fathom. In the deep adit driving south-east of Charile's shoft, on the caunter, the lode is improving very much, and worth 6t, per fathom. The other parts of the mine are without change.

WEST TOLGUE, July 17: The ground in Taylor's engine-shaft, sinking below the 85, is hard; during the past week the men have been regularly at work in the shaft, and have not been hindered by the water, which has fallen off two strokes per minute. The lode in the 88 west is 4 ft. wide, but at pr

betom; however, I think we shall be able to get in the bottom level the latter part of this week. I am very much pleased with the appearance of the lode in the 10 fm. lovel; we shall be able as soon as we clear it out to settribute at once. Near the western end the ground behind is already stoped away; the end is poor at present; the lode, I see, is subject to splices, and I think such is the case in the end at present. The run of ore ground seems to have a westerly dip, so I think the 20 end is just getting into it, and by putting up a rise it will come up through it, and open tribute ground at once.

WESTMINSTER.—F. Evans, July 17: The 70 east is driving in a large lode rich for lead ore, and improving, worth 2½ tons of lead ore per fathom, and laying open ground that will pay handsomely. Thompson's engine shaft will also go down in the midst of ore worth 1, 2, and 3 tons of ore per fathom, and will also cut out ore ground or very great value. The 80 east will, we expect, reach the point of ore ground soon; this run of lead ground has been productive and valuable in the levels over, showing excellent lead ore for the 80 to drain. I am pleased to be able to report good prospects, and appearances warrant me in saying we may ere long anticipate even something better, as the eastern part is also gradually improving, the shaft being worth nearly 1 ton per fathom.

win also cut one ground soon; this run of lead ground has been productive and valuable in the levels over, showing excellent lead ore for the So to the So to and valuable in the levels over, showing excellent lead ore for the So to the So to and valuable in the levels over, showing excellent lead ore for the So to per fathom.

The saying we may ere long anticipate even semething better, as the eastern part is also gradually improving, the shaft being worth nearly 1 ton per fathom.

WHEAL AGAR.—E. Rogers, July 17: There is no change in the mine worthy of notice since my last report, We sampled on Monday 134 tons of tinstuff. I do not know the produce yet, but think not so good an average as the last. WHEAL BULLER.—J. Inch. J. Brown, July 17: Stevens's Shaft: The 92 east is worth for the 5t, per fm.; the stope in the back is worth 10t, per fm. The 92 east is worth 10t, per fm. The winze under this level is worth 20t, per fm.—Hocking's Shaft: The 92 east is worth 10t, per fm. The winze under this level is worth 20t, per fm.—Hocking's Shaft: The 93 south is poor. The No.'2 cross-cut south is producing good stamping work for tin. No other change in the mine to notice.

WHEAL CREBOR.—J. Gifford, July 16: In the 120 east we have intersected the lode east of the cross-cross; the same is 2½ ft. wide, hard and poor. We have stopped this end for the time, and put the men to sink the winze in the bottom of the 96 east, which is down 4 fms. below the level; in this winze the lode is ft. wide, yielding 3 tons of copper ore per fathom, worth 12t. We are sinking by the side of the lode, which can be done with more speed, and less cost. In the 106 east of the lode shore the next meeting. In order to do it, if possible, the men worth 10th end of the producing stamping work to the mine side and producing stamping work. The lode in the 90 east is 3 ft. wide, producing stamping work. The lode in th

four men, at 101, per fathom. The 90, east of engine-shaft, is driving by four men, at 101, per fathom. The 130, east of incline shaft, is driving by stx men, at 71, 102, per fathom. The 130, east of incline shaft, is driving by four men, at 41, 102, per fathom. The 120, west of incline shaft, is driving by four men, at 61, per fathom.

WHEAL SPARNON.—W. Tregay, E. Chegwin, July 13: The lode in the shaft is 2 ft. wide, containing peach, prian, quartz, gossau, and spots of mundic—a very kindly lode. The shaft is now 4½ fathoms below surface, and still in the quarry; on getting below this stratum we expect an improvement.

FOREIGN MINES.

FOREIGN MINES.

UNITED MEXICAN.—Guanaxuato, June 5: My report on the mines is more favourable this month.—Mine of Jesus Maria y Jose: The accounts for the five weeks ending June 1 show a loss of \$\$\frac{1}{2}\$\$ fiss—more than counterbalanced by the value of gold in ores received during the month, and two small Mint certificates left pending. A larger quantity than usual of silver has been introduced, but our stocks have increased, and, on the whole, I can venture to say that the mine has left a small profit in the month of May, in addition to that arising from the reduction of ores in the hadendas. The extraction of hacienda ore has increased. We have herramientas at work in Santo Toribio, Santiago, Santa Elena, Remedios and Santa Brigida, without any new features worthy of remark. The buscones are working with great spirit and some success. Our saics have improved, and last weeks amounted to \$\frac{2}{2}\text{cf}. The memorias are high, but we are getting a good stock of powder and iron in, and can look forward to the arrival of the rainy season without fear of running short of the requisite stores.—Mines in the Guadaupe de la Oscura District: In El Carmen we have a little good ore in the poso de San Jose, on which the buscones are a work; and as we are dividing the ore with them (\$\frac{2}{2}\text{carga}, the produce of some weeks, has been sent to the hacienda of Durin; it lassayed 17½ mares per monton, worth about \$\frac{2}{2}\text{c}, per carga. The cross-cut de San Jose is being continued to comminicate with El Progreso, and the frente Del Progreso; I have turned a cross-cut

westwards to explore the El Oro ground, which is very extensively worked on the surface. In Roccillius we have cleared some old workings, discovered after some communication with the pit, as since June 1 the choke-damp seems to have left us, and workmon have been able to get down to the despacho lowards the come communication with the pit, as since June 1 from the depacho lowards the open depth. We have found a cross-cut from the despacho lowards the open depth. We have found a cross-cut from the despacho lowards the open depth. We have found a cross-cut from the despacho lowards the open depth. We have found a cross-cut from the despacho lowards the open depth. We have found a cross-cut from the depacho lowards the open depth of the pit of the pit

in six months from this date. I am giau to say they are to the searcity of hands we have had during the past month, that now labour is becoming more abundant, and that our surface and general operations begin to take a more lively turn.

FORTUNA.—July 6: Canada Incosa: The 100 fm. level, west of O'Shea's shaft, is very hard for driving. In the 90 fm. level, west of Henty's shaft, the lode has improved in the last few days, and is opening ground worth 1½ ton per fathom. In the 80, west of the same, the lode is small, and worth 1½ ton per fathom. In the 80, west of the same, the lode is small, and worth 1 ton per fathom; the ground is moderately easy for driving. The lode in the 70, west of Kennedy's, is large, and contains stones of lead. The 70, east of Carro's, is opening moderately productive ground, worth 1 ton per fathom. The lode in the 55, east of the same, has fluctuated considerably of late, and is now very small, and worth only ½ ton per fathom. Francisco's winze, below the 55 fm. level; the lode is regular, worth 1 ton per fathom, and of a promising appearance. Good progress is being made in sinking Rublo's winze below the 45 fm. level; the lode is worth 1½ ton per fathom.—South Lode: The lode in the 40 fm. level, east of San Pedro shaft, is large, and spotted with lead. The 40 fm. level, east of fm. level is off the lode, and hard for sinking. Gil's winze is being sunk simultaneously with San Pedro shaft, to divide the water during the sink, and afterwards to serve as footway.—Los Salldos Mine: In the 100 fm. level, west of the same, the lode, and hard for sinking. Gil's winze is being sunk simultaneously with San Pedro shaft, to divide the water during the sink, and afterwards to serve as footway.—Los Salldos Mine: In the 100 fm. level, west of San Pedro shaft, the elvan course is excessively hard fridriving through. The 90 fm level; west of the same, has been driven throug, one process of the same is large, spotted with lead, worth ½ ton per fathom, and look very promising. In the 65, west of San C

LINARES.—July 6: Pozo Ancho Mine: West of San Tomas Engine-shaft,—South Lode: The 110, west of engine-shaft, has been holed to No. 15s winze; the lode, worth 34 ton per fathom, is smaller than usual. The 75, west of Warne's engine-shaft, is passing through a strong productive lode, now worth 134 ton per fathors. The lode in the 75, cast of Grosby's engine-shaft, is large and strong, with good stones of lead ore on the north side of it, worth 34 ton per fathom. The 75, west of the same, having continued hard and poor, is suspended.—East of Engine-shaft: The 95 (worth 34 ton per fathom), driving casts of Thorne's shaft, is now holed to the 98, driving west from No. 146 winze, thus giving a great length to the level. The cross-cut south from San Jose shaft, in the 75, not having the cross-cut in the 95, from the south lode, towards Taylor's shaft, the ground being moderately easy for driving.—Shafts and winzes: Taylor's shaft will reach the 95 this month. No. 153 winze is holed to the 110, the lode being small at the point of communication. No. 147 winze is completed to to the 95.—General Remarks: The stopes yielded a good quantity of ore in the past month, and remain without any alteration of importance. The bull-engine at Warne's shaft is turned title, and the horizontal-rods from the large engine will be extended to this shaft, so as to effectually unwater this section of the mine. We estimate the raisings for June at 275 tons.

ALAMILLOS.—July 6: The 4th level, west of the San Rafael shaft, having continued poor for a great length, is now suspended. The 3d level, east of San Enrique, the lode is large, and spotted with lead. In the 3d level, east of San Enrique, the lode is large and strong, chiefly composed of sulphate of barytes and lead, worth 3th one per fathom. The alrevie, west of the same, is disarranged by a cross-course, and is suspended for driving, but we expect to intersect the lode this month. In the 4th level, east of Taylor's engine-shaft, the lode is large, consisting of calcarosus spar and goo

lode in the 4th level, west of San Adriano shaft, has been small during the greater part of the month; it is worth \(\)\forall to ner fathom. The alide is still very near the bottom of the 3d level, west of San Adriano. Santiago shaft boing the required depth for a 3d level, the men put to cross-out rorth towards the lode. The lode is very small in the 2d level, east of Crosby's cross-cut. We are expecting an improvement in the 2d level, west of Crosby's cross-cut, as there is some very kindly ground above and in advance of it.—Shafts and Winsee: Taysome very kindly ground above and in advance of it.—Shafts and winsee: Taysome very kindly ground above and in advance of it.—Shafts and winsee: Taysome very kindly ground above and in advance of it.—Shafts and winsee: Taysome very kindly ground shove a large of the lode in the shaft. Crosby's engine-shaft will reach the depth for a part of the lode in the shaft. Crosby's engine-shaft will reach the depth for a part of the lode in the shaft. Crosby's engine-shaft will reach the depth for a part of the lode in the shaft. We will reach the depth for a part of the lode in the shaft. We estimate the raisings for July at 200 tons.

[For continuation of Foreign Mines, see page 477.]

CO-OPERATIVE TIN-SMELTING COMPANY.-We understand that a CO-OPERATIVE TIN-SMELTING COMPANY.—We understand that a new tin-smelting company is about to be formed, on the co-operative principle, to be called the "West of England Co-operative Tin-Smelting Company." The principle of working it will be—say, after paying the shareholders 10 per cent. out of the profits, the remainder to be divided pro rata between the mines whose tin was purchased, at so much in the pound. This, it is considered, will combine both a good business at the works, and an extra profit to the miner.

MINING IN WALES.—The directors of the Mid-Wales Lead Mining Company have just received from their manager (Capt. John Kitto) intelligence that an important change has taken place in the lode in the adit, indicating that the rich deposit of ore seen above is being rapidly approached. Owing to the numerous applications for shares the list be closed in a few days. The abridged prospectus appears in another column.

GOLD MINING IN ITALY.—The new hoisting apparatus at the Pestarena Mines being nearly completed, there is every reason to expect a considerable increase upon the present profitable monthly returns of gold. The lode in the bottom of Peschiera continues to be worth a considerable increase upon the present production and the present production of gold. The lode in the bottom of Peschiera continues to be worth 100% per fathom, and an important improvement has taken place in the Cavetta lode, in the Carni Mine, the lode and the stopes being now worth 8 to 10 tons of ore per fathom, yielding an average of 1 oz. of gold per ton. It is satisfactory to find that all the ore from Aquavite and Peschiera treated by the small native mills is yielding an average of 2 ozs. of gold per ton.

HAYTIAN ESTATES COFFEE AND GENERAL PLANTATION COMPANY.

—The directors have just completed the contract, referred to in the Journal of June 29, for the cutting and sale of timber on the company's estates in Hayti, by which alone they expect to realise upwards of 10 per cent, without the outlay of a shilling. Should the company be equally successful in the letting of their several mines, and realisation of their several mines, and realisation of their several mines, and realisations of their several mines. equary successful in the letting of their several mines, and spaces, this undertaking promises to be one of the best offered to the public for some years, the soundness of which is pretty well assured by the fact of its having been brought out in defiance of the recent panic.

THE NATIONAL BANK.—The operations of this institution continue to progress most satisfactorily, as is evidenced by the report which the directors have just issued. It is shown that the nett profits for the past half-year, ending June 30 (after writing off all bad and providing for all doubtful debts), amounts to no less than 114,336*l*, deducting 12,998*l*, for rebate of interest on bills not due, leaves the nett amount 101,338*l*., which, added to the rest or undivided profits, at the end of December, makes a total of 661,592*l*. From this has to be deducted the half-yearly dividend (8 per cent. per annum), 60,000*l*., and extra dividend (16s. per share), 40,000*l*., leaving the amount of rest on June 30, 561,592*l*. Since that date, the usual dividend at the rate of 8 per cent. per annum on the paidthe usual dividend at the rate of 8 per cent. per annum on the paid-up capital, and the usual dividend of 16s. per share, have been de-clared. Relative to the account of the Bank of Hindostan, China, and Japan, it is satisfactory to find that the liquidation of that comand Japan, it is satisfactory to find that the liquidation or that company proceeds satisfactorily, and that a reduction of nearly a half million sterling has been made on its liabilities to the National Bank in the course of the half-year, its total engagements to the bank on June 30, including interest, being reduced to 381,853l.—this result is confirmatory of the opinion expressed by the directors respecting this account in the report presented to the shareholders at the annual meeting in January. The subscribed capital of the National Bank is 2,500,000l., and the paid-up capital 1,500,000l.

SLOW-BURNING GUNPOWDER.—Some time since reference was made in the Journal to a mode of manufacturing gunpowder, patented by Mr. G. A. Neumaxer, a Saxon, and with a view to perfect the invention he has since applied for another patent, according to which he proposes to mix about 72 parts by weight of saltpetre with about 18 parts by weight of charcoal; and to these he adds about 10 parts by weight of flowers of sulphur. These ingredients are placed in a closed cylinder of wood, copper, or other suitable material, through which passes a revolving shaft, having a number of radial arms, and which may be arranged in any suitable manner. Together with these ingredients he introduces water in the proportion of about 40 parts by weight to about 100 parts by weight of the compound, and then subjects the compound to the incorporating action of the revolving arms for about 15 minutes, after which the compound is removed from the cylinder and dried, without being subjected to the operation of granulation, and it is then fit for use. Such powder, when burnt in an unconfined space, will leave a considerable residue, but it is claimed that when ignited in a confined space it will leave a considerably less residue than ordinary SLOW-BURNING GUNPOWDER.-Some time since reference was a confined space it will leave considerably less residue than ordinary

NEW FUEL—UTILISATION OF SMALL COAL.—The proposal to turn small coal to commercial advantage is by no means new, but, as a correspondent very truly remarked, although mere pressure, tar, and correspondent very truly remarked, although mere pressure, tar, and gruel have each been tried to effect the consolidation of the mass, neither have proved successful. The difficulties, however, appear to have been altogether overcome by Mr. ROBERTS, of Craumer-road, Brixton, who proposes to make the small coal into a concrete mass by the addition of pulverised lime and water. He finds the hyst-proportions for the lime to be from one-tenth to one-twelfth the quantity by measure of lime, well slacked with water, will be amply sufficient to form the coal into a hard concrete, but somewhat po ous mass. The materials, when mixed, may be placed in wooden, earthen, metal, or other moulds, until the concrete becomes firm enough to be turned out to dry, for which purpose it will only be necessary to expose it to the air or wind for a few hours. The block will thus, in a day or two (without the application of any artificial heat), become hard enough to admit of moderately rough handling, and will burn with clearness and steadiness in any common grate or fire-place. Common lime answers the purpose as well as any of the stronger and more expensive cements,

THE ABERAMAN IRONWORKS (Limited).—Mr. Mark Markwich, writing to the Times, says—"I purchased the estate, works, and minerals, together with all the plant, live and dead stock, including the ore raised to surface—in fact, including everything upon the estate—for 250,0001. I then sold the estate to the Credit Foncier Company for 300,0001, also on written contract, they making a Mr. Stansby their nominee in their agreement of purchase, and paid by check a deposit of 50001 into the Imperial Bank in the names of our respective solicitors. I have not yet received one penny from the company, neither have I any position with the parties at issue in Vice-Chancellor Malins's Court."

ANGLO-DANUBIAN STEAM NAVIGATION AND COLLIERY COMPANY (Limited).—Creditors are required to send the particulars of their claims to ly minima Quilter, the official liquidator, by September 2, November 2 having be appointed by the Master of the Rolls for adjudicating upon them.

COAL MARKET .- The fresh arrivals this week only numbered 47 COAL MARKET.—The tresh arrivals this week only numbered 47 ships. The supply of household coal has been inadequate to the demand, and the market is entirely cleared, prices quoting an advance of from 6d. to 1s. per ton. In Hartley's, no alteration. Tees Wallsend, 20s. 6d. per ton; Hetton Wallsend, 20s. 6d. per ton; West Hartley, 17s. 6d. per ton; Hasting's Hartley, 17s. 6d. per ton. Unsold, will: 50 ships at sea.

THE COPPER TRADE.—Measrs, Vivian, Younger, and Bond (July 19) write—During the week 500 to 600 tons of Chill bars have been sold, at 681, per ton, and these sales were followed yesterday by further sales of 400 tons, at 671, 10s. This is the lowest price ever current here for this description of copper, of 96 per sent., and shows a heavy loss on last quotations from Valparalso. The tone of the market, however, is evidently towards lower prices. Few believe in even present rates being maintained, and a rise is generally looked upon as most unlikely, except at some distant period. Consumption, both here and elsewhere, is at a low ebb, whilst production does not correspondingly decrease. Indeed, advices by the last mail from Chili show the expectation of a full average export for the first haif of this year, whilst generally there is no appreciable export for the first haif of this year, whilst generally there is no appreciable continue its usual large production. Last year exhibited, at one time, what were considered attremely low prices for copper, nevertheless, in 1867, we have gone still lower. Australian copper, however, is 21. to 41, per ton higher than the minimum rates of last year, although stocks in London are larger by about 1900 tons. This is principally due to a large proportion which was bought at

The Mining Market; Prices of Metals, Ores, &c.

METAL MARKET-LONDON, JULY 19, 1867.

Ð			_
	COPPER. £ s. d. £ s. d.	IRON. Per ton.	
	Best selectedp. ton 79 0 0- 80 0 0	Bars Welsh, in London 6 10 0	
	Tough cake and tile 75 0 0- 77 0 0	Ditto, to arrive 6 10 0	
	Sheathing & sheets. 79 10 0- 80 0 0	Nail rods 7 0 0-7 10	-
•	Bolts 83 0 0	., Staffd. in London 7 10 0- 8 10	1
9	Bottoms 88 0 0	Bars ditto 7 10 0- 9 10	-
	Old (Exchange) 72 0 0	Hoops ditto 8 10 0- 9 12	1
	Burra Burra 84 0 0	Sheets, single 9 5 0-10 0	1
	Wireper lb. 0 0 1114	Pig No. 1, in Wales 3 15 0-4 5	-
•	Tubes , 0 0 11%	Refined metal, ditto 4 0 0-5 0	
t	BRASS. Per lb.	Bars, common ditto 5 10 0-6 0	1
L		Do. mrch. Tyneor Tees 6 10 0	
٦	Sheetsper lb. 9d91/4d.	Do., railway, in Wales 5 10 0-6 0	-
	Wire ,, 81/4d91/4d.		i
	Tubes ,, 10%d	To arrive 5 0	
5	Yellow Metal Sheath.p. lb. 7d714d.	Pig, No. 1, in Clyde 2 14 0- 2 2	4
)	Sheets , 6%d7d.	Do. f.o.b. Tyne or Tees 2 9 6	,
		Do. Nos. 3,4,f.o.b. do. 2 6 6-2 7	-
	SPELTER. Per ton.	Railway chairs 5 10 0- 5 15	
1	Foreign on the spot. £21 0 0	, spikes11 0 0-12 0	
,	,, to arrive 21 0 0	Indian Charcoal Pigs,	1
	HTWO		
١	In chects ZINC.		
	In sheets £25 10 0- 26 0 0	STEEL. Per ton.	
ı	TIN.	Swed., in kegs(rolled)14 5 0	
1	English blocks 91 0 0	,, (hammered) 15 0 0	
	Do., bars (in barrels) 92 0 0	Ditto, in faggots16 0 0	
	Do., refined 94 0 0	English, spring17 0 0-23 0	(
1	Banca 93 0 0	QUICKSILVER (p. bottle) 6 17 0	
1	Straits 87 10 0		
ı	TIN-PLATES.* Per box.	LEAD. Per ton.	
1		English Pig, com19 15 0	
1	IC Charcoal, 1st qua. 1 8 0- 1 10 0	Ditto, LB20 0 0	
ı	IX Ditto, 1st quality 1 14 0- 1 16 0	Ditto, WB21 15 0	
ł	IC Ditto, 2d quality 1 6 0-1 8 0	Ditto, ordinary soft + 20 0 0	
١	IX Ditto, 2d quality 1 12 0- 1 14 0	Ditto, sheet20 15 0	
ł	IC Coke 1 4 0-1 6 0	Ditto, red lead21 0 0	
1	IX Ditto 1 10 0- 1 12 0	Ditto, white27 0 0-30 0	0
ı	Canada plates, p.ton13 10 0	Ditto, patent shot23 0 0	
I	Ditto, at works12 10 0	Spanish 19 10 0	
ł	* At the works, 1s. t.	n is 6d nor how less	

* At the works, 1s. to 1s. 6d. per box less. † A Derbyshire quotation: not generally known in the London market.

REMARKS.—We seem now to have arrived at a position almost without parallel in the history of the Metal Trade, certainly not within the recollection of the present generation. Prices of metals are generally low, some of them being even lower than has been known for many years past; money is remarkably easy, and every inducement in a monetary way is offered for faciliating operations, and yet business appears to become increasingly dull, and there is little or no disposition to enter into transactions. The revival which was anticipated would take place in trade ere this is still in the future, nor does there at present appear any symptoms of its approach. It is very discouraging thus to see month after month pass away without any improvement taking place in the metal market, and we much fear that now we must not expect to see any great revival in the trade before the autumn, when, however, we trust that commercial affairs generally will take a turn for the better, and the long-anticipated improvement in business arise. At present orders both for shipment and consumption are very scarce, the markets abroad seeming to have participated in the want of animation which has characterised our own, and consumers only just ordering from hand to month, many works being able to continue in operation only a portion of the week, and hardly any being now in full work. The visit of illustrious foreigners, although causing considerable activity in some quarters, does not, unfortunately, affect our commerce so as to produce that favourable change so very desirable.

COPPER.—During the week advices have been received from Chill stating the charters for the fortnight to have amounted to 1430 tons of copper, of which 950 tons are slab, and the remainder ore and regulus. No alteration has taken place in the market in consequence of these advices, which still remains very flat and lifeless. Business has been done in sheet at 80%, while tough cake may now be quoted at 75% to 77%. So deplorable a state of the market for this metal has not been known for many years.

IRON.—In Staffordshire the without parallel in the history of the Metal Trade, certainly not within the recollection of the present generation. Prices of metals

previous belief that stocks are very low. Orders given out are wanted to be executed promptly, which proves that they are delayed to the utmost point of time. The demand from the United States continues small, and it is feared that the artificially high prices which protective duties and an inconvertible currency occasion, prevent capitalists from venturing into new enterprises, or incurring further obligations. There is a steady continuance of orders, though of no great amount, from the Continent. In Welsh, although many marks of the quietude which has so long prevailed in the trade are still visible, the prospects are decidedly more cheerful than they have been for some time past, and the opinion prevails that the trade is on the eve of a general improvement, though it may be gradual. This belief is strengthened from the fact of home consumers' stocks having become so low that they are compelled to come into the market, and is strengthened from the fact of home consumers' stocks having become so low that they are compelled to come into the market, and cannot avoid doing some business, although it may not be to any great extent. There are also contracts for a considerable amount in the market for the East Indies, and there is a probability of a large quantity of rails being required for Russia, America, and India. In Swedish iron the demand is not quite so active. In Scotch pig-iron there has been little fluctuation during the week, the price remaining at 53s. cash. at 53s, cash.

LEAD.—Business is by no means active, but prices remain without alteration.

TIN.—In foreign, transactions continue to take place in Straits at 87f. 10s. cash, and though the quantity sold is not by any means large, the price continues firm, with more disposition to advance than decline. English is still dull.

SPELTER has rather improved during the week, and sales of a pretty conside able amount have taken place at 20% 17s. 6d., since which the price has advanced to 21% on the spot, at which the mar-

BIRMINGHAM, JULY 19 .- Rylands' "Iron Trade Circular" states: A quiet but steady business doing. Pigs on fair sale. Prices firm. Builders' iron and merchants' iron in more demand.

The settlement of the fortnightly account took place in the MINING SHARE MARKET on Tuesday, and was again heavy, but the business transactions since have not been of any moment, and prices are flatter. with very few exceptions. Among the few mines dealt in are Prince of Wales, Wheal Chiverton, Chiverton Moor, Marke Valley, Chon, tales, Great Laxey, Great Wheal Vor, Wheal Seton, South Condurrow, North Crofty, and a few others. The standard for copper ore declined 11. 5s. this week. Chontales opened 5, buyers, and then declined to 4½, and after various fluctuations, leave off 4½ to 4½; the advices by the last mail are considered the most satisfactory that have been yet received. The mines are opening out well, and the Consuelo promises to be all that was predicted. The ends in the several levels driving east towards the rich "nail," are reported to be very rich, and yielding 4 ozs. of gold to the ton of stuff. The San Antonio and San Domingo Mines are also reported to be opening out well. In reference to the machinery, the large wheel at San Domingo, with eight arrastres attached, is in complete working order; the Estella Mill, with six arrastres, is nearly completed. The heavy Estella Mill, with six arrastres, is nearly completed. The heavy machinery from England has been transported to those points at the mines where it will be erected. A large wheel, with eight arrastres attached, is in course of construction at the Pavon, where rastres attached, is in course of construction at the ravon, where there is ample water-power for any amount of machinery all the year round. This wheel, with a continuous line of tramway from San Domingo to Pavon, is under contract to be completed by December next. The works, therefore, are altogether progressing towards attaining appliances for grinding on a large scale, and there is already

abundant stuff available to keep the mills well supplied, and in a month or two large and regular remittances may be looked for.

Prince of Wales shares have been very fluctuating, and largely dealt in, leaving off, after being 64s., buyers, on Wedneday, at 5a, to 61s.; the ends are now worth 500. Der fathom in the aggregate, however, is issuing from the cross-cut to the north lode. Well Prins of Wales, 10s. to 15s.; Chilverton Moor, 54 to 54; Clifford Amalga, and 47 to 75; East Basset, 18 to 20; East Caradon, 54 to 54; Clifford Amalga, and 47 to 75; East Basset, 18 to 20; East Caradon, 54 to 54; East Carn Brea, 2 to 24. Drake Walls, 9s. to 11s.; at the meeting the secounts showed a credit balance of 65l. 16s. 4d. The mine has laidy been worked on a limited scale, and has about met costs; but from improved prospects, and the advance in tin, the agent recommend the erection of more stamps at Brenton's engine, and to resume active operations, which would result, he considers, in profit to the share holders. West Drake Walls, 5s. to 7s. 6d.; at the meeting the secounts showed 1169l. 19s. 6d. in hand. The company has purchased a 40-in. engine, which is to be erected forthwith. The engine-shaft is now down 11½ fms. from surface, on the Prince of Wales dog, and in ground favourable for minerals. A large branch, which cause in the shaft from the north some time since, continues to produce occ. sional stones of tin and copper ores, which is regarded a very favourable for ore in depth. East Lovell, 6½ to 6½; East Russell, 1 to 1½. Wheal Buller, 20 to 25; the 80 east is worth 35l. per fathom, the 70 east, 20l. Great Retallack shares have not been so firm, and leave off 4½ to 5; the lode in the 20 north is worth 7 cwts, per fathor the 70 east, 20l. Great Retallack shares have not been so firm, and leave off 4½ to 5; the lode in the 20 north is worth 7 cwts, per fathor the 70 east, 20l. Great Roth Downs, 3½ to 3½; Herodsfoot, 33 to 35; Marts Valley, 4½ to 4½; Frontino and Bolivia, 9s. to 10s.; Great North Downs, 3½ to 3½;

The Market for Mine Shares on the Stock Exchange during the The Market for Mine Shares on the Stock Exchange during the week has been moderately active. Don Pedro shares have fallen about 10s., but close firm. Chontales fell to \$\frac{1}{2}\$ prem., but have also rallied; it is known that the lode has been cut rich in Consuel, and very large remittances are expected by the next mail. Taquarl Gold, closing price, \$\frac{1}{2}\$, \$\frac{1}{2}\$ prem.; St. John del Rey, 58, 60; Don Pedro, \$\frac{1}{2}\$, \$\frac{1}{2}\$ prem.; Anglo-Brazilian, \$\frac{1}{2}\$, \$\frac{1}{2}\$ prem.; Pestarena, \$\frac{1}{2}\$, \$\frac{1}{2}\$ prem.; Anglo-Brazilian, \$\frac{1}{2}\$, \$\frac{1}{2}\$ prem.; Chontales, \$\frac{1}{2}\$, \$\frac{1}{2}\$ prem. United Mexican in demand on last advices at \$1\frac{1}{2}\$ to \$2\frac{1}{2}\$; Rossa Grande, \$9s\$. to \$11s\$.; Frontine and Bolivia, 9s. to \$11s\$.; Quebrada, \$1\$ to \$1\frac{1}{2}\$; Yudanamutan, \$\frac{1}{2}\$ to \$1\frac{1}{2}\$ prem. Port Phillip, \$1\$ to \$1\frac{1}{2}\$. In English mines a good business has been done. Chiverton Moor shares have risen to \$\frac{5}{2}\$, \$\frac{5}{2}\$. Chiverton share are in demand at \$7\frac{1}{2}\$ to \$7\frac{1}{2}\$; West Chiverton, 66 to 68. Prince of Wales shares close at \$59s\$, to 61s. Westminster Mine is very favourably reported on; the lode in the 70 east has improved to \$2\frac{1}{2}\$ tons per fathom, and the lode in the eastern shaft is valued at 1 ton per fathom, and the resulting the share of the property of the performance of the property of the performance of the p The 70-inch engine was set to work on Saturday last, and is one of the most perfect pieces of machinery in Wales. The water can now be kept with great ease. North Crofty shares are firmer, at 34 to 34.

IRISH MINE SHARE MARKET.—Dealings in all shares and stock during the last fortnight have been generally of a limited character on our Stock Exchange, there being but very little disposition shown on the part of the public, or habitual speculators, to buy at the recently current quotations, and a great majority of holders preferring do no business if it cannot be effected without a reduction. Any transactions, therefore, particularly in mining shares, are only exceptional, and of insignificant amount. The few which have taken place have been confined to small lots of Wicklow Copper, which a few days ago have been sold at 201. 10s., and have just been done at 200. per share (21. 10s. paid), giving a fall of 11. for the two weeks now ending. Mining Company of Ireland shares (71. paid), which since the 15th inst. are quoted ex-dividend, have been much steadler, having lost only 2s. 6d. of the 5s. per share advance recorded on the 6th inst., and been sold in one or two instances to a small extent, and leaving off firm. Connorrees are not so well held, and, consequently, suffered a further decline from 15s. to 14s. 6d.; and Caryforts, of which public opinion is very fluctuating, have been bought at 2s. 6d. The present prevailing dulness in the Stock and Share Markets offers an excellent opportunity to purchase either for investment or for speculation only. As a relieving companion-picture to the sad accounts of the temporary distress in the West of Ireland, it would do the hearts of our readers good to see the splendid promiss of a most abundant harvest of every description of grain, grass, or root. The potatoes, the staple food of our working classes, are abundant and healthy everywhere, and already for sale at 1s. per 14 lbs. (or stone), with every prospect of obtaining them in less than a month at half that price. The country was parched by the late dy weather, but St. Swithin's day in Ireland was ushered in with a deluge of rain, which has since been followed by most refreshing showers, enriching our farmers by t IRISH MINE SHARE MARKET.—Dealings in all shares and stocks howers, enriching our farmers by thousands of pounds daily.

The ESPINOSENA SILVER MINING COMPANY, with a capital of The ESPINOSENA SILVER MINING COMPANY, with a capital of 100,000l. in shares of 5l. each, has issued its prospectus, which states the object of the undertaking to be the purchase and working of the silver mines of Espinosena, Salaguena, and Demasias, situated its San Antonio, Lower California, Mexico. They are held under three grants in perpetuity from the Government, extending lengthwise about 3800 feet, along several lodes of silver ore, of which three have been proved. Messrs. Townshend, Wood, and Co., of Swasses, state that Mr. Thomas Price, their agent in San Francisco, represents that the mine is of immense value, surpassing anything he knows; they have themselves such a high opinion of the mine, that they are prepared to take a very large interest. The price to be paid for the prepared to take a very large interest. The price to be paid for the mines is 110,000%, of which 42,000% is to be in cash, 20,000% in paid-up shares of the company, and the remainder by half the nett result. up shares of the company, and the remainder by half the nett relised profits as they accrue. The mines are so situated that they will be drained without pumping, and, according to the assurances Mr. Robarts, the mineral engineer, writing from the mines, it is estimated that 5000l. will be ample for the erection of the machinery for concentrating the ore, and for perfecting the arrangements for shipping at Vantana Bay; and it is proposed, in addition, to provide 5000l., which it is thought will be sufficient for working expense, It is anticipated that one moiety of the first year's profits will more than provide for the balance to be paid to the vendors; and the most carefully prepared estimates seem to warrant the belief that the mine will yield such profits as will enable the company to give dividends to the shareholders of cent, per cent, per annum on their capital invested. The direction is a particularly influential one—Mr. Dillwyn, M.P., being at its head; and if only one-half of the anticipations of the directors be realised, the undertaking cannot fail to be highly profitable to all concerned. profitable to all concerned,

The CENTRAL AMERICAN ASSOCIATION has decided to issue additional debentures to the amount of not more than 10,000%, to rank the directors have fixed Aug. 1 as the last day for the shareholders to apply for them. Three remittances, amounting together to 757 cm. of gold, have already been received, and should they continue, as anticipated, the debentures will be speedily paid off. The resolution authorising the issue of the debentures will be found, together with the report of the meeting, in another column,

At Truro Ticketing, on Thursday, 4139 tons of ore were sold, realising 16,932ℓ. The particulars of the sale were:—Average standard, 109ℓ. 17s.; average produce, 6½; average price per ton, 4ℓ. 2s.; quantity of fine copper, 257 tons 14 cwts. The following are the particulars: Date. Tons. Standard. Produce. Per ton. Per unit. Ore coper. 257 tons 14 cwts. The following are the particulars: Date. Tons. Standard. Produce. Per ton. Per unit. Ore coper. 27. 1692 105 17 0 7/4 5 5 0 13 11½ 68 2 8 3 2 9 11. 5s., and in the price per ton of ore about 1s. 8d. Compared with the corresponding sale of last month, there has been about a similar

At New Pembroke Mine meeting, on July 9, the accounts, made up to the end of April, showed a debit balance of 5641, 13s. 10d. A call of 2s. per

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JULY 20, 1867.]

Sarv was made. The agents' reportstated that the prospects of the mine were share was made. The agents' report stated that the prospects of the mine were relieved to the work of the great cross-course, and which there is making good discovery west of the great cross-course, and which there is making good discovery west of the great cross-course, and which there is good making to the cross-course, coupled with their having every reasonable proged of an improvement in the lode in the 75 fathom level cross-cut when intersected in the following of the cross-course, coupled with their having every reasonable proged of an improvement in the lode in the 75 fathom level cross-cut when intersected in the couple of the cross-cut when intersection in the lode in the 75 fathom level cross-cut when intersection considerably lengthened at the deeper level), they would then be able to great counts for the quarter ending April showed a debit balance of 36751.

At Par Consols Mine meeting, on July 9 (Mr. E. J. Treffry in the least of the couple of th

pany, an adjournment was agreed upon, in order that some amicable arrangements might in the meantime be adopted.

At the Otea Copper Mining Company meeting, to be held on July 30, a resolution will be proposed to authorise the directors to borrow a sum not exactly a resolution will be proposed to authorise the directors to borrow a sum not exactly in the security of the whole of the property of the company, on setums of their circular, or such amended terms as may then be agreed to.

At the Scottish Australian Investment Company meeting, to be held of Friday, the report of the directors, to be submitted, states that the gross profits realised in the colony during the half-year are 27,7851. 5s. 10d., of which seems to be submitted, states that the gross profits replaced in suspense. To the balance of 25,2861. 5s. 10d., has to be added the sum of solid. 5s. received in London for commission and transfer fees, &c., making a profit for the half-year of 25,804. 5s. 10d. The colonial profits are entirely derived from the ordinary sources of the company's revenue—rents, interest, and commission. The directors will propose a dividend, payable on terest, and commission. The directors will propose a dividend, payable on sent of the paramum, less income tax, which will require 15,0004, and leave to be carried to the credit of the reserved fund 1371, 17s. 8d., which will then amount is 18551. 2s. 8d.

In \$1551, 2s. 8d.

The Bank of England return for the week ending on Wednesday reming was favourable rather than otherwise. In the ISSUE DEPARTMENT there is shown an increase in the "notes issued" of 109,8551, represented by a corresponding increase in the coin and buillion on the other side of the account in the Banking Department there is shown a decrease in the "other deposits" of 337,0361, together 89,9621, and in the "other deposits" of 337,0361, together \$6,084,-278,5781, and deducting from this the decrease of 75,9321, the "other securities" on the asset side of the account, there remained a decrease in the total reserve of 8551.

mained a decrease in the total reserve of \$551.

On the Stock Exchange a limited amount of business has been transacted in Mining Shares during the week. The following prices were officially recorded in British Mining Shares:—Great Wheal Vor, 17½; East Carn Brea, 2; East Caradon, 5.—In Colonial and Foreign Mining Shares the prices were:—Port Phillip, 1, 15-16ths, 1½; Yudanamutana, 1; Chontales, 4½, 4½, 4½, 43, 43-16ths, 4; Don Pedro North del Rey, 3½, 3½, 3½, 3½, 3½, 3½, 3½, 3½, 3½, 2¼; Prem.; St. John del Rey, 5½, 5½; Pestarena, 2½, 2½; United Mexican, 1½, 2, 2 1-16th, 2.

533, 584; Pestarena, 24, 24; United Mexican, 14, 2, 2 1-16th, 2.

SAFETY-LAMPS.—According to the present ordinary construction of miners' safety-lamps the glass is held in the lamp by means of a plain or flat metal ring, which fits into a screw on the lower part of the frame of the lamp, and bears directly against the bottom of the fass, no allowance being made by for expansion of the glass, and hence the frequent fracture of lamp-glasses. As it frequently happens, moreover, that the glass and ring do not fit together accurately, an inte of foul air often takes places at that part. The ring is constantly liable to become unscrewed by simply turning the glass from the outside, the friction of the glass against the ring carrying it round with it. To obviate these inconveniences, Mr. Evan Thomas, of Abordare, proposes to form an annular groove of the surface of the ring, and cause the glass is if into such annular groove; and in order to prevent the possibility of the ingest of tool air into the lamp at the top and bottom of the glass, and to allow for expansion, he introduces at those parts an elastic packing ring or washer of relamined fullar rubber, and at the bottom of the glass he interposes a metal ring or washer between the India rubber and the annular grooved ring, this metal ring or make the second provided in the place of the lamp; by this means the loosening of the securing rings by turning the glass is prevented.

GUE FOR METALS.—A good glue for metals may be made by mix

GLUE FOR METALS.—A good glue for metals may be made by mix ag with sixteen parts of melted glue one part gum ammoniac, and then addinger part of saltpetre acid.

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A MONTHLY COMMERCIAL REVIEW, 1st August, price 6d.

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nd without delay. Means. WALTER HARRISON AND Co., 75, Old Broad-street, London, E.C.

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NOTICE—CAPT. S. M. RIDGE, of LLANIDLES, MONTGOMERYSHIRE (late manager of the Brynpastig and Come Fron Interface and others, in Shropshire and Wales), is NOW OPEN to INSPECT and faithfully REPORT UPON ANY LEAD MINE in either of these localities that may be confided to his care, having had better than 30 years' experience in lead mining, as miner and agent.—Address, Capt. S. M. RIDGE, Lianidloes Marketone and Landing and Capt.—Address, Capt. S. M. RIDGE, Lianidloes Marketone and Landing as miner and agent.—Address, Capt. S. M. RIDGE, Lianidloes Marketone and Landing as miner and Landing as mi

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CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE.

THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kington of Great Britain and Ireland do hereby give notice that on TUESDAY, the 23d inst., at Two clock, they will be READY to RECEIVE scaled TEXDERS for the PURCHASE of several lots of MACHINERY taken from Her Majesty's ships Foxhound, Flying Fish, Tartar, Ætna, and Trusty, lying in Woolwich Dockyard. Catalogues and conditions of sale may be obtained here, and at Her Majesty's Dockyards at Deptford and Woolwich.

Persons wishing to become purchasers must apply to the Commodore Superintendent of Her Majesty's Dockyards at Woolwich for notes of admission to view the same.

intendent of Her Majesty's Döckyards at Woolwich for notes of admission to view the same.

No tender will be received after Two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an agent for him duly authorised in writing, to make a deposit of 25 per cent. on the amount of the tender.

Every tender must be addressed to the Secretary of the Admiralty, and bear in the left-hand corner the words "Tender for Machinery," and must also be delivered at the Department of the Storekeeper-General, Admiralty, Somerset House.

Registrar of Contracts and Public Secreties.

Contract Department, Admiralty, Somerset House, 6th July, 1867.

India Office-Contract for Iron.

BY ORDER OF THE SECRETARY OF STATE FOR INDIA IN COUNCIL.

NOTICE IS HEREBY GIVEN that the DIRECTOR GENERAL OF STORES FOR INDIA will be READY on or before Monday, the sealed up, from such persons as may be willing to SUPPLY—
BEST BRITISH IRON,
And that the conditions of the said contract may be had on application, addressed to the Director-General of Stores, India Office, Cannon-row, Westminster, where the proposals are to be left any time before Two o'clock P.M. of the said 29th instant, after which hour no tender will be received.

GERALD C. TALBOT, Director-General India Office, July 19, 1867.

In Chancery.

PURSUANT to a Decree of the High Court of Chancery, made in a Cause, "JOHN MILES and Others against SYDNEY TUDOR EVANS," the GREDITORS of the estate of John Miles, late of Pontymixter, in the county of Monmouth, ironfounder, who died in or about the month of April, 1867, are, on or before the lat day of September, 1867, to SEND by post, prepaid, to Mr. Thomas Morgan Liewellin, of Newport, in the county of Monmouth, the solicitor of the said Sydney Tudor Evans, the administrator of the personal estate and effects of the said John Miles, deceased, their CHRISTIAN and SURNAMES, ADDRESSES, and DESCRIPTIONS, the full PARTICULARS of their CLAIMS, a STATEMENT Of their ACCOUNTS, and the NATURE of the SECURITIES (if any), held by them; or, in default thereof, they will be PEREMPTORILY EXCLUDED from the BENEFIT of the said DECREE. Every creditor holding any security is to produce the same before the Vice-Chancellor Sir Richard Mailins, at his Chambers, situated No. 3, Stone-buildings, Lincoln's Inn, Middlesex, on Tuesday, the 5th day of November, 1867, at Twelve o'clock at noon, being the time appointed for adjudicating on the claims.

THOMAS WHITE and SONS, 11, Bedford-row, London (Agents for Thomas Morgan Llewellin, Newport, Monmouthshire, Solicitor for the said administrator).

Dated this 16th day of July, 1867.

TO ENGINEERS.—WANTED, for a large IRONWORKS in SOUTH WALES, a RESIDENT ENGINEER.—Apply by letter, stating qualifications and salary, to "J. R.," Messrs. Pottle and Sons, No. 14, Loyal Exchange, London.

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practical mapper, dialler, and surveyor, and has a good practical knowledge of
mining. First-class references.—Address, "B. B.," Post-office, Gunnistics.

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Mines		Pr	ice.		Mines. Tons. Price.	
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ditto	129	 4	17	0	Devon and Cornwall 65 3 0	6
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ditto	******* 39	 9	9	6	Prince of Wales 44 8 2	0
ditto	****** 29	 12	7	6	ditto 42 7 16	•
ditto		3	1	0	ditto 30 5 4	0
	ley 85	 4	11	6		0
ditto	******* 84	 2	0	6	Bedford United 58 2 17	0
ditto	******* 80		14	6	ditto 55 2 15	0
ditto	****** 55	 4	14	0	West Maria & Fortes, 72 1 13	6
ditto	****** 50	2	9	6	ditto 12 4 13	(
ditto	47	 4	3	6	Bampfylde 63 11 8	-
ditto	36	3	15	0	Wheal Crebor 59 3 4	-
	Down104	 3		6	Gunnislake (Clitters). 36 5 10	(
ditto	98	 2	8	6	Caradon Consols 36 2 4	-(
ditto	63	2	13	6	Fursdon 30 5 3	-
ditto	****** 60	3	8	0	James's Ore 24 4 17	(
	don 88	3	3	6	Collacombe 8 2 5	(
ditto	******* 82	 4	2	6		
		COT	CAL	P	RODUCE.	

| TOTAL PRODUCE. | TOTA

COMPANIES BY WHOM THE ORES WERE PURCHASED. Total 4139 £16,932 0 0

Copper ores for sale at the Royal Hotel, Truro, on Thursday next.—Mines and Parcels.—South Caradon 472—Clifford Amalgamated 450—Wheal Rose 360—North Treskerby 231—Pheents Mines 187—Craddock Moor 156—West Caradon 108—Glasgow Caradon 100—Wheal Polharmon 42—St. Day United 29—Hallenbeagle 26—Great Wheal Busy 12—Wood Mine 3.—Total, 2116 tons.

Copper ores for sale at Tyack's Hotel, Camborne, on Thursday week.—Mines and Farcels.—Wheal Seton 885—Clifford Amalgamated 601—West Wheal Seton 567—South Crofty 372—West Tolgus 337—Wheal Basset 141—East Pool 128—East Grenville 92—Dolcoath 25—East Basset 20—Wheal Grenville 16—North Dolcoat 5.—Total, 3189 tons.

NOTICE.—In future the Ticketings will commence at Redruth and Cambor recisely at Eleven o'clock.

WATSON BROTHERS' MINING CIRCULAR. WATSON BROTHERS,

MINING AGENTS, STOCK AND SHARE DEALERS, &c. 1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

1, ST. MICHAEL'S ALLEY, CORNHILL, LONDON.

MESSRS. WATSON BROTHERS beg to notify to their friends and the public generally that Mr. W. H. CUELL has retired from the firm, in accordance with a clause in the deed of partnership; and having also sold to the remaining partners all his right, property, and interest in the business hitherto carried on by J. Y. WATSON, F.G.S., NAPOLEON FREDERICK WATSON, and himself, under the name of "WATSON and CUELL," the same will be carried on in future by Mr. J. Y. WATSON and Mr. N. F. WATSON, under the designation of "WATSON BROTHERS," and they take this opportunity to return their most sincere thanks for the great patronage bestowed and confidence reposed in the firm for 24 years, and to assure their friends and clients it will be their earnest endeavour to merit a continuance of both.

Messrs. WATSON BROTHERS have made arrangements for continuing their weekly Circular, which has had a large circulation for many years, to the columns of the Missing Journal, their special reports and remarks upon mines and mining, and state of the share market, will in future appear in this column. In the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1873, and published in 1843, by Mr. J. Y. WATSON, F.G.S., author of "Gleanings among Mines and Miners," Records of Ancient Mining," "Cornish Notes" (first series, 1863), "The Progress of Mining," with statistics of the Mining Interest, annually for 21 years, &c., &c. in the Compendium of Amount of the survey of the property of the property of the progress of Mining, and mail ricks in several mines, ensuring success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Perhaps at no former period in the annals of mining ans there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is at present; and, from the lengthened e

or the market, as they have for so many years done privately, through the medium of their own Circular.

Messre. WATSON BROTHERS transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of dividends, obtaining information for cilents, and affording advice, to the best of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Market.

Messrs. WATSON BROTHERS also inform their clients and the public that they transact business in the public funds, railway, docks, insurance, and every other description of shares dealt in on the Stock Exchange.

Messrs. WATSON BROTHERS are also daily asked their opinion of particular mines, as well as to recommend mines to invest or speculate in, and they give their advice and recommend mines to the best of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

ways equal the expectations they may have held out in a property so fluctuating as mining.

Messrs. WATSON BROTHERS having agents and correspondents in all the mining districts, and an extensive connection among the largest holders of mining property, have the more confidence in tendering their advice on all matters relating to the state and prospects of mines and mining companies, and are able to supply shares in all the best mines at close market prices, free of all charge for commission.

"INQUIRER."—1. The 55 west is nearing the first cross-course; the 45 was poor above it. The latter level was worth 50l, per fm. between the two cross-courses, which are 8 or 10 fms. apart, and 60l, per fm. after it passed through the second cross-course, and consequently many fathoms beyond the present 55 end.—2. The 45 has gone over a course of ore 60 fms. long; and the 45 east shows every prospect of again becoming rich.—3. Taking the four ends at their present aggregate value of 60l, and supposing they are driven 14 fathoms in a month, this will open out 140 fms. of ore ground, which, at 15l, per fm., would give 2100l, or nearly double what will be taken away.—4. So far from being small, the sett is very large, nearly one mile square, and big enough for three ordinary-sett where it is a very fine one, and we fully expect to see it cut rich at the deep level in Prince of Wales, and as it would be whole to surface, it would nearly double the value of the property. Of course, this part is a speculation, but better than many that are brought out at 5000l, to 10,000l, premium on the market. Since the above was written the report shows a further falling off in the ends; now worth 50l, per fm.
CHONTALES.—As we said a fortnight ago, we scarcely expected gold this time; but shall be disappointed if there is not at least 1000 ozs. by the end of August.

MINING IN BRAZIL-THE SAO VICENTE MINING COMPANY.

At the meetings of the shareholders of the East del Rey Mining Company, held in November, 1866, and in May of the present year, the conditions upon which it was proposed to form a new company for the further development of the Sao Vicente Mine, were fully discussed, and reported in the Mining Journal.

As, however, the enterprise is now before the public as the SAO VICENTE MINING COMPANY, it may not be without interest to recapitulate the

for the further development of the Sao Vicente Mine, were fully discussed, and reported in the Mining Journal.

As, however, the enterprise is now before the public as the SAO VICENTE MINING COMPANY, it may not be without interest to recapitulate the basis upon which it is proposed to raise the fresh capital, and with this view it may be stated that the directors, in the present depressed condition of the share market, have felt it incumbent to offer most advantageous terms for the subscription of new capital, and at the same time to reduce the contingent liability per share to a defined minimum amount. Thus it is that they propose to issue shares of a low denomination, but entitled to a considerable preferential dividend, while the shareholders in the late East del Rey are entitled to an equal number of shares in the new to that which they held in the old company, such shares to be considered as fully paid up, but not to participate in the divisible profits until after the shares upon which the additional capital is subscribed shall have received a preferential dividend or bonus of 20s, upon canh 10s, share, but after that payment no further distinction is to be made.

As to the position and prospects of the mine, it may be mentioned that, as far as situation is concerned, it is everything that can be desired, being about 24 miles eastward of the St. John del Rey, and 22 miles from Ouro Preto (the capital of the province of Minas Geraes), and between the celebrated Gongo Soco and Don Pedro Mines. Mr. Walter Furst (who was specially engaged by the directors of the East del Rey Company to examine and report upon the property), considers that "when once the Morro de Sao Vicente is fully developed, there is every probability (if not certainty) of it becoming remunerative to the company." Referring to jacotings formations, when she provided gold to such an extent that 50,000, was offered for the mine, but he of the Congo Soco Mine in three days)—this labour, as compared with working in quartz formation (in March, 1

ITALIAN PETROLEUM.—An important discovery has recently been made near Pescara, which promises at least to prevent the continual advance in the price of petroleum, which has so much impeded its more extended use. Mr. Gaggiotti, the English Vice-Consul at Ancona, has received information from the discoverer that "toccolina" exists in large quantities in the locality mentioned, although the people of the place have done comparatively nothing to utilize it, beyond gathering a little of the liquid and using it as asphalte for pavements. Experiments have proved that 60 per cent. of the raw liquid, after being distilled and refined, can be made use of; whereas American oil can produce little more than 60 per cent. from the raw material. The same produced from little more than 60 per cent, from the raw material. The flame produced from the oil is said to be brighter than any yet seen; and, from the results obtained at a small distillery at Port Reconati, it is evident that there are no insurmountable difficulties in the way of refining the crude liquid; the discoverer having also devised a process by which any quantity can be cheaply brought into marketable condition.

ALUMINIUM BRONZE.—This alloy, in which aluminium takes the place of the tin contained in common bronze, is becoming daily more and more important in the metal trades. In a paper recently presented to the Academy of Sciences, M. Hulot, director of the postage-stamp manufactory at the Imperial Mint, describes a new application of this alloy, clearly showing its power of resistance superior even to that of steel. It may not be generally known that paper is one of those substances that blunt the edge of a knife-blade or a pointed instrument most easily. The sharpest blade becomes unfit for use after it has cut through a few hundred sheets of paper. But when the latter is gummed its power of destruction is infinitely increased, and this is the case with postage-stampe. The holes pierced through these little equares of gum paper are obtained at the French mints by means of a machine consisting of an upper frame armed with 200 needle-points of tempered steel, fixed upon it in an erect position at right angles with the plane of the frame, which in its turn is hinged to another frame made of tin bronze, and pierced with as many holes as there are needles, each fitting exactly, though not tightly in its proper hole. At every stroke this machine perforates five sheets of postage-stamps. The wear occasioned by this work is such, that in the course of a day the perforated frame of common bronze becomes unfit for use, the holes widening so that the paper, instead of being pierced, is merely embossed. This may be easily conceived from the fact that each machine of holys! M. Hulot, after many trials, resolved to substitute aluminium bronze for the common alloy of copper and tin; and experience has now shown that the lewer frame made with the former will last several months without being worn eut.—Galignani. ALUMINIUM BRONZE.-This alloy, in which aluminium takes the

Notices to Connespondents.

Much inconvenience having arisen in con sequence of several of the Number during the past year being out of print, we recommend that the Journal should be filed on receipt: it then forms an accumulating useful work of reference.

PRIFOLI.—An arenaceous variety of quartz, mixed with clay, as from Tripoli in Africa; colour, greyish white. Will any of your correspondents kindly inform me, through the Journal, the market for the above, or what persons use it?—S. J. H.

It?—S. J. H.

IRON TAMPING BARS.—I have several times called public attention to the danger of using iron tamping bars. Another accident has occurred at one of Messrs. Freemans' granite works, on Dartmoor; while one of the men employed in blasting was tamping with an iron bar, the hole exploded, and blew off part of his hand, besides otherwise seriously injuring him. The agent and his son had a narrow escape. Surely mining and quarrying agents should take the matter up, and insist upon copper tips being used, as they are already at Devon Great Consols, for life should not be sacrificed when such a simple remedy can be had.—T. NICHOLLS: Abbey Mead, Tavistock.

remedy can be had.—T. NICHOLLS: Abbey Mead, Tavistock.

DISSTRUCTION OF FIRE-DAMP.—I have just perfected a new plan for extinguishing fires, which is also applicable to the destruction of fire-damp, which it at once decomposes and renders harmless. For the extinction of fire several extensive mill owners in Bolton have already tried it, and speak highly in its favour, and I have no doubt that when it is tried in a colliery it will give equal satisfaction. I am disinclined to make the discovery public until it is secured by patent, and there are pecuniary difficulties in the way of my securing it. Perhaps, therefore, some reader of the Journal will feel disposed to co-operate with me to patent it, in which case I would willingly make an equitable arrangement.—Joseph Jones, Working Chemist: Cambridge-street, Bolton.

rangement.—Joseph Jones, Working Chemist: Cambriage-street, Botton.
YEST TRELAWNY.—I would thank any correspondent to inform mel fit he Liquidator appointed by the shareholders is taking any steps to have the conduct of certain parties who have been officially connected with this company fully investigated before the affairs are wound-up? Such a course would be doing them and us justice. I forbear making further remarks pending the information I have solicited.—A SHAREHOLDER.

tion I have solicited.—A Shareholder.

Corth Shepherds.—In the beginning of last July a meeting of the adventurers in this mine was held, and duly reported in the Journal, but since that time I am not aware that the shareholders have had any intimation of how the mine is progressing. At that meeting it was strongly recommended to work with vigour a large and most profitable iron lode then just discovered in the mine, and I am sure the shareholders will be glad to know if that recommendation was followed, and what progress the mine is making generally.—A SHAREHOLDER.

A SHAREHOLDER.

WHEAL TREVENNA.—I fully coincide with the observations made by shareholder in the last two numbers of the Journal, and suggest it would be most desirable for the parties really interested in the affairs of this company to subscribe, an obtain a report on the mine (independent of its present management) on which they can rely, as from experience very little reliance can be placed on any port which emanates from the managers or their agents.—A SHAREHOLDER.

they can rely, as from experience very little reliance can be placed on any report which emanates from the managers or their agents.—A SHAREHOLDER.

WHEAL TREVENNA.—After three years of promises and disappointed expectations, it appears that there are a number of shareholders who have arrived at the same conclusion. They begin to doubt the accuracy of the statements made by the directors and other officers. When operations were commenced we were informed that the mine would in a very short time become a dividend one—that the property was equal to any in the county, and that its resources were such that the shares were at a premium. Suggestions have aiready appeared in the Journal of the necessity of having the property inspected for the purpose of eliciting the facts. Now, I think a "special commissioner" ought to be sent, who is unconnected with the present directory, to ascertain the health of the patient—to see whether I tacks proper treatment. If it is endowed with a sound constitution, or is approaching a dissolution, and then report impartially, so that the public may judge the expense to be borne by the company, thereby relieving the manager of the trouble of preparing one for the annual meeting. If the report proves favourable to the directory so much the better for all concerned, but, if not, then the shareholders would be able to adopt such means as may be considered necessary in the meantime for the approaching annual election.—ANOTHER SHAREHOLDER: Hallface, July S.
EAST BASSET,—A shareholder asks why no report of progress at this mine ever appears in the Journal? Its situation and former achievements render it one of the most important of our mines, with "dividends in abeyance;" while the smallness of the number of the shares greatly enhances their speculative value, and renders them peculiarly sensitive. Reports from the mine tend to show that the former great successes are likely to be repeated. At such a time it is considered that a report in the Journal is due to the patient and expectant advent

is considered that a report in the Journal is due to the patient and expectant adventurers, and that at all times one should be forwarded at least once a fortnight. If not, why not?

BASTIER'S CHAIN-PUMP.—In the Scientific American of July 13 Mr. Bastler's pump is briefly referred to thus—" Passing this (Capt. Beaumont's boring machine) we come to a simple pump, which throws an immense stream of water. It is merely a common chain-pump, with india-rubber discs for the buckets, and these fitting the barrel tightly, yet, without great friction, enable a good duty to be done without waste of power." The description is so thoroughly inaccurate that even the praise bestowed upon the pump is worthless. The movelty of Bastler's pump, which I first saw described in the Mining Journal, and which is about to be, if not already, introduced into the United States, is that there is no friction in the barrel except for I fathom in every 50 fms. In the remaining 49 fms. the diameter of the India-rubber discs and of the inside of the barrel is the same; in the I fm. the discs well pack. The effect of this arrangement is (as proved by the action of a glass pump showing the state of the water throughout the length of the pump p that there is never so much as a bubble of air in the water space. The disc entering the contracted portion draws in the water as serfectly as the piston of an ordinary reciprocating pump, and before the first disc leaves the contracted portion a second enters. Now, as the discs in the uncontracted portion are sufficiently close to the side of the pump to enable each to support the column of water between it, and the disc above it, the flow upwards is much assisted, whilst the next contracted portion (that 50 fms. above the other) has a tendency, if I may so describe it, to keep the water always stretched, making it flow in a column of uniform diameter, and preventing any appreciable friction, even of the water, against the sides of the barrel in the uncontracted portion. As the American rights have been p

THE MINING JOURNAL, Bailway and Commercial Gazette.

LONDON, JULY 20, 1867.

OUR COMMERCIAL POSITION AND PROSPECTS.

OUR COMMERCIAL POSITION AND PROSPECTS.

The unemployed capital of the country augments daily, and it is obvious to all that it will continue to do so over the remaining months of the current year. It is no matter of surprise that money is reduced to 2 and 1½ to 1 per cent., and that it is closely hoarded by the few who command it, whilst the coffers of the Bank and the wealthy overflow with profitless riches. The trade and commerce of the country unquestionably presents many features of exceptional interest, and combine to foster protracted caution in the minds of the wary, and likewise to curb the spirit of the more buoyant and enterprising members of the commonwealth. The condition of our railways forms a topic of universal comment, and affects, next to land and our funded properties, the well-being, pecuniarily and socially, of the whole nation. The vast fabric of our iron thoroughfares is reared into a mighty engine of locomotion, as essential to the trade of the kingdom as is its prosperity as a remunerative investment necessary to the exas is its prosperity as a remunerative investment necessary to the existence of the larger portion of our wealthy classes. The capital employed is equal to the National Debt of Great Britain, and few have scope of mind to grasp a subject so powerful and extended, and fraught with direful disaster to millions of Her MAJESTY'S subjects as would prove the collapse of our trunk railways. We, therefore, pause when we reflect upon recent revelations, and hope that forthcoming investigations into the effects of other companies will be affected. coming investigations into the affairs of other companies will show more favourable results than the North British, London, Chatham, and Dover, London and Brighton, or the Great Eastern.

The stagnant state of our money market arises from a prolonged and critical transition from excessive inflation to comparative hesitation, or to inactivity, and now stubborn prostration as to the security of our institutions, banks, railways, trading companies, or other commercial investments, of every and whatever character or description they may consist;—the results are restricted, only occasional dealings, plethora of unemployed capital, reduced prices of good and established as well as speculative properties, universal mistrust of established as well as speculative properties, universal mistrust of the future and disgust at past losses, with a fixed determination not to act until the worst is over; thus the class of investments is not only choice, but excessively scarce in the market, adopted at the pre-sent moment by the holders of money, and though the amount of capital is relatively superabundant as regards all existing require-ments, yet it is not absolutely so plentiful as to create any uneasiness as to its ready and legitimate employment, and at remunerative gains, so soon as the normal condition of the country becomes reinstated. The temporary loss of interest when money can only be se-

ourely employed at 1 to 1½ up to 2 per cent, it wholly in when compared with the necessity and importance of was markets of all doubtful creations, and the reduction of all and sound properties and enterprises of merit and useful and sound properties and enterprises of merit and useful healthy and wholesome standard of value. It is true wedges, others the sad haveo and reverses of fortune and inclinate was and prolonged commercial disasters, the inevitable results of inhealthy and the compared to the compared to the commercial disasters, the inevitable results of inhealthy of the commercial disasters, the inevitable results of the commercial compared to the commercial disasters of the commercial public.

We have, however, some hopes in the flutten, and do set to bright days and a healthy atmosphere to breathe afresh in field field of commercial action, requiring only a few mostland, the horizon, inspire confidence anew, re-establishing our data and lessenting inland trade, reviving our contracted and encommerce with the world, and establishing with the ser many creased commitments, both at home and abroad, based on a many permanently profitable foundation, advancing with rapid saltary strides, enriching all associated therewith, and especially to whom the past and present lessons of inflation and present lessons of inflation and prevalunce of the compared were accompany over-wrought commercial excitement. This, tion on the part of the public is, to a great extent, justified, a returns of the Clearing House show no perceptable increased where the compared to the compared accidence in the part of the public is, to a great extent, justified, a returns of the Clearing House show no perceptable increased in the part of the public is, to a great extent, justified, a returns of the Clearing House show no perceptable increased in the many of these breaking and its and the many of these breaking and its weaking and the market price, as, for instance, the falling our home trade has fallen off, and that it must necessary

UTILISATION OF BLAST-FURNACE GAS.—A few days since one of our contemporaries felicitated "the Black Country on the prosect of losing its unenviable title if a plan now carried out at Earlons ville's ironworks, near Hanley, were generally adopted." The plar referred to is not an absolute novelty, but it is probably carried of the twint it is in operation consist of a suite of four blast-furness, as the mouth of that which is nearest to the boilers is covered overwife a movable cupola. The gas and smoke generated in the furnal are carried, by means of iron pipes, to the fire-places of the boiler seven in number, and also to four kilns, used in the production of the hot-blast. The pipes discharge themselves just in front of a small bright fire, in passing over which their contents become indied, and an almost constant stream of ignited gas rushes alog be neath the boilers and into the hot-air kilns. The consumption of the smoke prevents its escape up the chimney, with its attendant diagreeable effects upon the atmosphere; but we shall not be though uncharitable if we say that, probably, in the eyes of the noble prietor and his managers the saving of fuel is a far more important consideration. By utilising the gas of one furnace, from 30 to 4 tons of slack per day are saved, and taking this and some misor considerations are now being made for converting, in a similar manner, another of the furnaces, and when that has been done in slack will be required, and the saving still more considerable, and will amount to something important upon every ton of from made.

MANUFACTURE OF ZINC.—During the last three or four years.

MANUFACTURE OF ZINC.—During the last three or four years but only a very small proportion of them have been practically tests, having, in fact, in most instances, been abandoned as worthes by their respective inventors before the completion of the patents. In the Journal of May 23, 1863, reference was made to an invention by Mr. S. Healey. He proposed to place a reverberatory furnace for melting, beside the annealing furnace, in order that the latter might be operated with the waste heat of the former, but provisional protection was refused. In the Journal of June 13, of the same 186, Mr. George Parkitatoric and the models of the same proposed in the same prop tection was refused. In the Journal of June 13, of the same rem. Mr. George Darlington's patent for mixing zine ores with smekalimic coal, and melting them by the gas heat from a blast-furnace is described. There was a collecting chamber above the melting furnace, into which the products were turned as soon as the zine oxide began to form. Mr. Darlington's improvements were fully described in the Journal of Oct. 22, 1864. The object of Mr. George Lewis's invention, referred to in the Journal of July 25, 1863, was to give "body" to oxide of zine used as a pigment; this he did by submitting it to frictica ad pressure. An interesting account of a visit to the zine-smelting weis near Aix-la-Chapelle, embracing a description of the Silesian method of reducing the ores of zine, was published in the Supplement to is Journal of Oct. 31, 1863; and in the Journal of Dec. 26, of the same year, there were two zine-making inventions described—the inst being the same published. year, there were two zinc-making inventions described—the first beight that of Mr. A. Muller, of Paris, who proposed to charge a blassfar nace with fuel, and then blow in the zinc ore and fluxes through the tuyeres; and the second, that of Mr. S. Healey, re-specified. Mr. James Webster proposed, as mentioned in the Journal of April 1, 1865, to reduce zinc ores by bringing them in contact with molten 1865, to reduce zinc ores by bringing them in contact with molten 1865, through which he forced them; the zinc was volatilized and 1961, and the quality of the iron was improved by the process, and the Journal of August 26, 1865, the invention of Mr. A. Reynolds, In the Journal of August 26, 1865, the invention of Mr. A. Reynolds, of Bagills, was referred to. The patent was not completed, and the invention is a modification of those of Messrs. Müller and Darlinginention is a modification of those of Messrs. Müller and Darlinginention is a modification of those of Messrs. Müller and Darlinginention is about 15,000 tons per annum, considerably more than one-third of which comes from the Isle of Man.

SIEGENA SULPHUR MINING COMPANY (LIMITED).

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Grand, has been formed for the purpose of acquiring and working format, has been formed for the purpose of acquiring and working format, has been formed for the purpose of acquiring and working format, has been formed for the purpose of acquiring and working of iron pyrites (mundic) near Siegen, in Westphalia. The demises of iron pyrites (mundic) near Siegen, in Westphalia. The demises of iron pyrites (mundic) near Siegen, in Westphalia. The demises of iron pyrites (mundic) near Siegen, in Westphalia. The demises of the sound in the siegen of the si

COLLIERY ACCIDENTS IN NORTH STAFFORDSHIRE.

The number of fatal colliery accidents has been lamentably on the increase in the North Staffordshire district during the past six months. In 1866 the number of fatalities (leaving out of the calculation the exceptional cases of Talke and Dukinfield) was 46; it was the same in 1865, but in the first six months of the present year it reached 40. No apology can be needed for bringing the subject under the notice of our readers in the district, and for offering a few words of suggestion with the view to an amelioration of this aliaming state of things. Having made enquires on the subject in well-informed quarters, we incline very strongly to the opinion that 19-20ths of these accidents are to be attributed to the non-employment of properly-trained scientific managers. This view is borne out by numberies cases in point, two or three of which we may mention, without running the risk of giving unnecessary pain by being too particular in our description. At colliers A the number of deaths had for a considerable time averaged four preyear, but this state of things decoming unendurable the Government Inspector insisted upon a more itself legent management, whereupon the colliery was placed under the supervision of a competent viewer, and the result has been that during the last three years only one life has been lost. At colliery B the number of fatal accidents has, from your arr. In case C—a colliery in the neighbourn-load of Hanley—the pits had become a perfect Accidama, and the proprietors confessed at one of the number of supervision of a competent viewer, and the result has been that during the last three years only the supervision of accidents which, after having been for year almost the work may be a considerable to the other previous of the most important collieries in the district, which, after having been for year almost have now passed without a fatality. Case D is that of the underground bailiff, and accidents at once began to happen at a fearful rate. After a time COLLIERY ACCIDENTS IN NORTH STAFFORDSHIRE.

tested, less by is. In ion by see for might I proyear, keless ribed, which Mr. isl of ferred de of

in the social scale. This leads us to remark that one of the most prollife sources of accidents is the low state of discipline in the collieries of the district, arising in nearly every case from the absence of a strict disciplinarian at the head of affairs. The underground bailiffs are too nearly on an equality with the firemen, the chartermasters, and the butty colliers, and the consequence is that, from mistaken notions of good nature or from indifference, numberless breaches of rules are winked at which would be reported and punished if the underground officials were acting under the eye of a master, and were supported by his authority. The men of this class in the North of England are not eleverer men than those of Staffordshire, but the difference in the degree of discipline maintained in the collieries of the two districts is strikingly in favour of the North, because there every man's duties are clearly defined, distinctions of grade are observed, and breaches of the rules are followed by the penalties of the law.

The time, it is to be feared, is far distant when the occupation of a collier will cease to be a dangerous one, but we are convinced that the number of deaths might be greatly reduced, and that scientifie management and strict discipline will contribute more than anything else to that desirable result.

MINING, METALS, AND MINERALS-PATENT MATTERS,

BY MICHAEL HENRY,
Patent Agent and Adviser, M. Soc. Arts, Assoc. Soc. Eng.

It would neither be consistent nor graceful in a notice of this description were the writer to omit some allusion to the great loss recently sustained by the widely-spread community interested in inventive progress and industrial jurisprudence. The death of WILLIAM CARPMAEL is not merely a private calamity—it is a public bereavement. For very many years his name has been associated honourably, and even brilliantly, with the advance of the useful arts, and the maintenance of industrial rights and inventive property. His great capabilities and sound judgment, added to his remarkable power of memory, and long experience, gave him an eminent and well-merited professional position. It is no mere recollections of personal kindnesses that induce the writer of this article to offer this humble tribute to the memory of Mr. Carpmael, but the higher consideration that by his decease a loss has been sustained in the ranks of men with whose interests he was connected, and in whose thoughts and deeds he was concerned—the greatindustrial classes of the community. Various as were the channels into which his mental labours were directed, and various the subjects on which, in his career, he touched, it may be said of him—Nikil tetigit quod non ornavit.

The week has been marked by some judgments relating to the It would neither be consistent nor graceful in a notice of this de-

The week has been marked by some judgments relating to the prolongation or extension of patents, under the provisions of Lord Brougham's Act. Lord Romilly was one of the members of the Judicial Committee of Privy Council, before whom these cases have been heard. The elevation of Sir John Rolt to a seat on the Equity Bench will, of course, modify the *personnel* of the present list of Commissioners of Patents. It is understood that Mr. Selwyn will be the new Solicitor-General, Sir W. Karslake succeeding Sir John Rolt.

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Among specifications recently published is an important one—that of BARRON's patent; from the description it may be stated that the invention consists in converting iron into steel after the metal is formed or fashioned into shape, by applying certain gases, brought into contact with the heated metal. The invention also consists in a process of producing gases for the purposes of the invention. The gases used are carburetted hydrogen in combination with nitrogen or cyanogen, separately or together, or carburetted hydrogen with nitrogen and carbonic oxide. Ammoniacal gas and chlorine may also be used in the place of or mixed with the nitrogen. The retorts used are brought to a red or white heat, when the iron is placed in them, and the retorts are closed, and the gaseous currents are then forced into the retorts, or brought into immediate contact with the metal therein. The carburetted hydrogen may be produced as usual, or it may be generated in the retort containing the metal to be steeled by slowly admitting therein liquid or solid hydrocarbons, or nitrogenised or other fats, which will be decomposed by the heat of the retort, and converted into gas. The iron or metal, after having been steeled, is protected from contact with the atmosphere while being cooled or hardened, by causing an atmosphere of gas to play around it to prevent oxidation. He produces nitrogen, carbonic oxide, and cyanogen gases by passing atmospheric air, whether heated or not, through ignited charcoal, coke, &c.

CROCKFOED, of Holywell, proposes to utilise the sulphur contained in the sulphur contained in the sulphur to the retors are the sulphur contained in the sulphur to the retors are the sulphur to the sulphur to the retors are the sulphur to the sulphur

or not, through ignited charcoal, coke, &c.

CROCKFOED, of Holywell, proposes to utilise the sulphur contained in the sulphuret of zinc, and which is now wasted. He adds sulphur vapour to the sulphurous acid gas generated by the calcination of sulphuret of zinc, and renders it available for the manufacture of sulphuric acid by causing it to pass through chambers or kilns which are heated or not heated, and which contain sulphur or any metallic sulphuret. He charges the sulphurous acid gas with additional sulphur apour by causing it to pass through a chamber containing sulphur vapour by causing it to pass through a chamber containing sulphuret of zinc, which is kept stirred or agitated without admitting atmospheric air. He also describes an improved construction of retort furnace for the reduction of zinc ores, in which is a succession of fire-places in advance of alsuccession of blocks, or sets, or retorts; and he describes a construction of fire-place having its length parallel with the retorts, instead of being transverse to them, as in furnaces with the retorts, instead of being transverse to them, as in furnace of ordinary construction.

FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

After remaining thirty years without profit, the Ougrée Ironworks Company has just decided on the distribution of a dividend of 16s. per share for the exercise 1866-7. The rough profit realised during the exercise amounted to 21,802\(\text{L}\), reduced by interests and miscellaneous charges to 11,637\(\text{L}\), of which 2800\(\text{L}\) was applied to a dividend on the shares, the remainder being applied to various redemptions, &c. The Belgian coal trade has arrived at the dead season of the year. With the exception of the Escaut and the Espierre and Bossuyt to Courtral canals, the navigations are generally suspended. This state of affairs, which is renewed every year at the same period, produces generally the same effects; the stock accumulates, and extractors can only hope that on the re-opening of the navigations affairs will regain a new activity. Meanwhile, business is very quiet, and prices are badly supported. The Government has just "ceded," for 30,000\(\text{L}\), to three coal mining companies—the United Collieries, the Pays de Liege, and the Poirier—the land under the fortress of Charlerol. The annual report of the Charlerol Chamber of Commerce informs us that the number of collieries in activity in the arrondissement of Charlerol has remained the same (61) since 1864; on the other hand, the centres of working in activity, which numbered 115 in 1864, only amounted to 110 at the close of 1866. The engines employed amounted to 163 for extraction purpose, 63 for drainage purposes, 126 for ventilating purposes, and 137 for miscellaneous purposes, representing a total force of 24,431 horses. The workmen employed, as well above as below the surface, numbered 32,204; they raised altogether 5,203,772 tons of coal last year, the extraction coating for wages and other expenses 2,041,501. A supplementary order for ralls has been obtained on Russian account, and has brought some employment to works who saw the time approaching when they would altogether lack it. In other respec

take place are competed for most indefatigably. In the Moselle, for example, we see the forgemasters of the Meuse, the Haute-Marne, and the Ardennes offering pig on the Metz market in competition with the producers of the department. Refined pig is quoted at 2l. 1st. to 2l. 1st. 2d. per found. The house of Wendel recently tendered for a lot of Prussian rails, and from the price at which it offered to supply the rails it virtually obtained the contract; it was given, nevertheless, to the Burbach works, as the Prussian Government did not deem it advisable to enter into a contract hard and fast with MM. Wendel, but preferred to encourage instead a Prussian concern. The department of the Meurthe appears to now possess coal workings of some importance, which were scarcely known fifteen years since. At the close of last year fourteen concessions, comprising altogether about 10,000 acres, had been accorded, and the total has since been almost doubled, extending now to about 20,000 acres. The mineral bed is variable; in certain concessions in working it has a thickness of 28 ft. to 46 ft., while in other localities is does not exceed 18 t; at the same time it is of remarkable richness. In all, eighteen blast-furnaces are now in operation or construction, and everything leads to the belief that this number will be rapidly developed. Casting pig is quoted at 2l. 18s. It is not generally known that the Franche-Combé Forges and Foundries Company furnished a part of the wire used for the Atlantic cable. In the department of the Ille-ct-Vilaine, far from prospering, metallurgical industry tends to disappear; the development of the production of iron and coal has rendered the existence of the Jast-furnaces using wood as combustible a matter of very great difficulty, and some of the works of the Qallieg and the Sérignee, and at the last only second fusion pig is now made. In proportion as ironworks are disappearing in the Ille-et-Vilaine, the working of mineral is being developed; the department now supplies the blast-furnaces

ompany, July 23, at Paris; Val d'Osne Blast-Furnaces and Foundries Com-ny, July 24, at Paris; Huelva Copper Mines Company, July 27, at Paris; eurohin Colliery Company, July 27, at Béthune; and Sougland and Fourniers orges and Foundries Company, Aug. 3, at Paris.

Company, July 22, at Paris; Yai d'Oane Blast-Furnaces and Foundries Company, July 24, at Paris; Heutea Copper Mines Company, July 24, at Paris; Heutea Copper Mines Company, July 27, at Paris; Meurchin Colliery Company, July 27, at Béthune; and Sougland and Fourniers Forges and Foundries Company, Aug. 3, at Paris.

At Havre the demand for Chilian copper is now almost sil; few purchasers present themselves on the market, and the only transaction mentioned is the sale of a small lot of disposeable at 694. 10s, per ton. For deliveries at short dates business has been done at 71L per ton. At Marsetlles prices have remained without change, and without other affairs besides transactions in detail. Toka has made 74t.; Spanish, 72t.; Chilian and Peruvian, 80t.; rolled red copper for sheathing, 92t.; and yellow ditto, 82t. per ton. The Paris market has been quiet by continuation. English making 80t.; Lake Superior, 89t.; Chilian, 71t.; and Corcoro mineral, 76t. per ton. The position of the article has not varied on the German markets. On the Dutch markets the total sales registered comprise 300 blocks of Sils.; Billion remains quoted at 52½ fils. The demand for tin has been moderate on the Paris market, but prices have been firm, Banca making 90t., Straits 91t., and English 90t. to 91t. per ton. The German markets indicate, generally, a good tone of the article. On the Paris and Marseilles markets lead has been tolerably well sustained in value, as well in consequence of purchases provoked by consumption, as from the scarcity of disposeable goods. At Paris rough French lead has made 20t. 2s., and Spanish 20t. 4s. per ton. At Rotterdam, Stoblerg and Esohweller lead, and German lead of various marks, has realised 11½ fils. At Breelau and Hamburg there have not been many transactions in zinc; nevertheless, holders decline to make concessions. The Paris market remains quiet, at former rates; rough Silesian has brought 21t. 4s., and lead from other sources 20t. 16s. per ton.

REPORT FROM NORTHUMBERLAND AND DURHAM.

JULY 18.—The state of trade here generally does not improve, and, after a long struggle to keep its head up, the coal trade appears now to have fairly caught the infection—large heaps of coal are accumulating, at some points, more particularly on the Wear and in the western parts of the county of Durham, and short time is now resorted to in some cases, in order to check the supply. The following table shows the quantities of coal exported and sent coastwise during the months of June in 1866 and 1867.—

during the months of June	in 186	6 and	1 1867	:			
EXPORTS.	Jun	e, 186	7.		Jun	e, 18	36.
EXPORTS.	Coals.		Coke.		Coals.		Coke.
NewcastleTons	237,124		16,921		240,784		11,095
North Shields	8,339		121				70
South Shields	14,835		-		4,498		-
Blyth	17,163		_		19,354		-
Amble	3,091				5,047		144
Sunderland	121,103		490		99,721		1,830
Seaham	8,731		_		7.824		
Hartlepool & West Hartlepool	51,908		1.977	******	53,024		1,988
Middlesbro'	11,104				10,963		2,458
Total	473,898		23,395		452,645		17,089
COASTWISE.		ne, 1				e, 186	
	Coal	5.	Coke		Coals.		Coke.
NewcastleTor	as 191,5						
North Shields	5,1	80					
South Shields	9	94		******			
Blyth	6,2			******			-
Amble	7	79		******			
Sunderland	133,3						
Seaham	41,6	61	2	2			
Hartlepool and West Hartlepool	71,0						
Middlesbro'	12,5	16	53	3	. 11,539	• • • • •	. 111
Total	. 463,3	94	. 1,80		480,862		1,399
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It will be seen that the total quantities of coal sent from north-eastern ports during June, 1867, nearly corresponds with the quantity sent away in June, 1866—the exports having increased in the present year (that is, in the June month) by 20,753 tons, while the coals sent coastwise show a falling off equal to 17,468 tons.

Now, when the value of coal is increasing from year to year, and the question as to the duration of the coal fields of Great Britain de-

Now, when the value of coal is increasing from year to year, and the question as to the duration of the coal fields of Great Britain deservedly assumes the most serious importance, any process whereby the produce of the beds and general strata already known may be largely increased in amount and value, must be hailed as a boon of great magnitude. Under this head may be classed machines for cutting coal; and it may be remarked, by the way, that here these machines make little progress, but they will, without doubt, be brought to higher perfection at some future day. The most important branch of this subject at present, however, appears to be the utilisation of the shales and carbonaceous clays found so abundantly in connection with the coal measures. The manufacture of oil from those shales has been going on in some parts of this district for a considerable time, extensive works for the reduction of the shale heaps at some of the Lambton collieries having been established about three years ago, and works of a similar kind are being established at several places in the district, at some of which the products are converted into grease for consumption on the premises. The employment of coal oil, in combination with coal, for the manufacture of gas, must give additional importance to this subject; and there can be little coal oil, in combination with coal, for the manufacture of gas, must give additional importance to this subject; and there can be little doubt that a trade of much importance and commercial value will shortly spring up. This subject was fully noticed in the Journal of the 6th inst., the article in question giving the substance of a paper by Mr. E. Goddard, engineer to the Ipswich Gaslight Company, read before the British Association of Gas Managers, at Nottingham. It was there stated that works on a large scale are in course of erection at Murton peer Scale are properted that a mixture of coal

was there stated that works on a large scale are in course of erection at Murton, near Seaham, where it is expected that a mixture of coal and oil will be produced for the manufacture of gas equal to the best Boghead coal, and at about one-half the cost of Cannel.

There is no improvement whatever in the Iron Trade, and stocks continue to accumulate. At Middlesbro' there is a large quantity in stock in the warrant store—not less than 74,000 tons, the largest quantity ever stocked there. All branches of the iron trade continue dull, and entirely devoid of animation. Foundries, generally, continue in the same state, while most of the works are but moderately employed. All the smaller mills and foundries of the district are, with few exceptions, working short time, and there certainly is little prospect of any great improvement during the present year. On the whole, however, the blast-furnaces of the Tyne and Wear are better employed than any other branch of the iron trade in the northern parts of the district, the stocks of pig-iron being greatest in the south or Middlesbro' part.

of the district, the stocks of pig-iron being greatest in the south or Middlesbro' part.

A rather disagreeable strike has taken place at the Ouston Collieries—that is, at a part of the pits there. A demand was made some time ago for an advance of 1s. per score, or about 15 per cent. on the old prices, and an offer has been made on the part of the owners to give an advance of 4d. per score, but this has not yet been accepted on the part of the workmen. After giving due notice, which expired last week, work was entirely at a stand at some of the pits belonging to the company—that is, the Bewick Main and another pit. A rather curious move has been made on the part of the men, apparently with a view to assist those on strike, and facilitate a settlement. The men at the pits referred to have restricted themselves to earn a certain amount per day—2s. 6d. per day in one case, and 1s. 9d. in the other; if this odd arrangement was adopted generally in these two counties, the result would, no doubt, be a considerable improvement in the demand for coal. It is hoped that an amicable settlement of the dispute will be arrived at soon, as the amount in dispute is not large.

REPORT FROM SCOTLAND.

JULY 17.—Operations in the Pig-Iron Market have been nearly supended during the week, and the business done has been at sta-tionary prices. The shipments for the week are in favour of the market, being 11,670 tons, against 10,375 tons in the same week of market, being 11,670 tons, against 10,375 tons in the same week of 1866. To-day the market is inanimate, and slightly lower; iron obtainable at 53s. 1½d cash, and 53s. 4½d. a month, buyers 1½d. a ton less. Makers' iron—Glengarnock, 59s.; Coltness, 62s.; Gartsherrie, 62s. 6d. No. 1, g.m.b., 53s. 9d.; No. 3, 52s. 9d. Manufactured Iron is unchanged either in price or demand, and several of the works are to have additional holidays at this time, owing to the paucity of orders. Coals are dull of sale, the weekly shipments of last year and this nearly balancing, the quantity for the week just ended being 24,500 tons, against the larger sum of 24,625 tons same week of 1866. Yesterday there was a great demonstration of the locked-out men in the Wishaw, Hamilton, Motherwell, and Larkhall districts, held at the Shield Muir. The great orator was Mr. M'Donald, who characterised the lock-out as unfortunate and foolish for the masters, and for this he was highly applauded. He continued—

The masters had no coal. The lock-out could not kill the consumpt, and the men had only to go where the coal was. They should also consider that wherever they went it would require three to put out the quantity that two men could do In Wishaw. If they agreed that Scott's men should remain out, headvised them all to treat the lock-out as if it were to last six months—nay, six years; leave the district as if there never was to be work more in it. He understood the employers were bound, under a penalty, not to begin their pits till Scott and Gilmour's men agreed. They should bind themselves, under a penalty, not to resume work till six weeks after they were needed by their former employers. He was glad to inform them that he thought work in plenty could be found for all locked out. In the North of England the men had lately gained certain concessions, which made their rate of wages far over the men of Scotland. In some of the shale fields there was more activity. He wanted the public to know that the strike was provoked by Scott telling his men they were to be reduced, though they had already submitted to a reduction of 20 per cent. The following resolutions were agreed to unanimously:—1. That the men of Scotland Gilmour's collieries remain out till their requests be yielded to.—2. That all men leave the places locked out, and not return till they be sent for.

It is very probable that the men will have their desire, as there is some likelihood that miners from Cornwall will be imported to fill up their places on a scale which will make the project a success. The number of hands locked out and at work in this district are about equal—thirteen firms being locked out (two partially). At a meeting of masters to-day, they resolved to allow matters to remain undisturbed. The Orna ironworks and mineral fields, belonging to the late Mr. Stewart, are for sale or to be let; the Britannia forging,

undisturbed. The Orna ironworks and mineral fields, belonging to the late Mr. Stewart, are for sale or to be let; the Britannia forging, tube, and shovel-making works, Coatbridge, are offered for public roup; and the Clyde foundry and plant. Shipbuilding is quiet on the Clyde, but more stir is expected after the holidays.

The paddle-steamers Bella and Mary Helen, built by Messrs, Wingate, of Whiteinch, and recently purchased by the Turkish Government for the Imperial Navy, sailed for Portamouth in order to assist at the naval review, and for the inspection of the Sultan. The former is a vessel of about 800 tons Brittish measurement, and 200 horse-power, and the latter 1000 tons British measurement, and 200 horse-power, and the latter 1000 tons British measurement, and 200 horse-power, and the latter 1000 tons British measurement, and 200 horse-power, and the latter 1000 tons British measurement, but the second of the steaming 19 miles per hour, and the Mary Helen 21 miles per hour, on the official trial trips. Even better results are expected when the engines have been working for some time.

REPORT FROM MONMOUTH AND SOUTH WALES.

REPORT FROM MONMOUTH AND SOUTH WALES.

JULY 18.—More encouraging hopes with regard to the prospects of the Iron Trade for the next three months are now held out by merchants and factors than for some time past. Although many marks of the quietude which has so long prevailed are still visible, the prevailing belief is that the trade is on the eve of a general improvement, though it may be but gradual; in fact, until the commencement of another year a thoroughly normal state may not be regained. Enquiries from the United States are increasing, and a demand is also springing up on account of East Indian and Australian markets; and these facts, coupled with the probability of a large quantity of rails being required for Russia and America, fully justify ironmasters in anticipating better times to come, as the coun-

justify ironmasters in anticipating better times to come, as the countries named have hitherto been good customers to the district, and it is only reasonable to anticipate a fair share of future requirements. In the manufacture of the more important branches of the iron trade South Wales has, of late years, made great progress, and among the latest improvements may be mentioned the production of the Patent Weldless Tyres, which were introduced into the district by the Bleaneson Iron Company to whom the make has been explusively Blaenavon Iron Company, to whom the make has been exclusively confined; and, owing to the reputation enjoyed by the company for the manufacture of iron of the best description, these tyres are now taking their place in the market equal to the very best Yorkshire. and the company's mill has been fully employed for the last twelve months on orders for the most influential railways both in this coun-

There is a better enquiry for Tin-Plates, cokes selling readily a There is a better enquiry for Tin-Plates, cokes selling readily at the recent advanced rates, and charcoals are largely purchased at firmer and better prices. The Steam Coal Trade is not up to the average, and merchants complain of the dulness prevailing, for which they have just cause, as the busiest part of the season may now be said to have arrived. To meet the increasing traffic at Birkenhead shippers are straining every nerve to provide the necessary facilities.

Messrs. Jones and Co., of Caerphilly, have taken the Iron Foundry at Maesycwamer, which they intend starting forthwith. The foundry was built a great many years ago, and has been worked by several parties since, but for some time it has been at a standstill.

The Patent Nut and Bolt Company (Limited) have appropried a

at Maesyewmmer, which they intend starting forthwith. The foundry was built a great many years ago, and has been worked by several parties since, but for some time it has been at a standstill.

The Patent Nut and Bolt Company (Limited) have announced a dividend of 7½ per cent, per annum fer the half-year ending July 30. The profits of the company justified a larger dividend, but the directors deemed it prudent to reserve a balance for the result of the year's trading.

A decided improvement on the ordinary construction of Miners' Safety-Lamps has been patented by E. Thomas, of Aberdare. According to the present construction of miners' safety-lamps the glass is held in the lamp by means of a plain or flat metal ring, which fits into a screw on the lower part of the frame of the lamp, and bears directly against the bottom of the glass, no allowance being made for the expansion of the glass, and hence the frequent fracture of lamp-glasses. As it frequently happens, moreover, that the glass and ring do not fit together accurately, an inlet of foul air often takes place at that part. The ring is constantly liable to become unscrewed by simply turning the glass from the outside, the friction of the glass against the ring carrying it round with it. Now, according to this invention, the patentee forms an annular groove on the surface of the ring, and causes the glass to fit into such annular groove on the surface of the ring, and causes the glass to fit into such annular groove on the surface of the ring, And in order to prevent the possibility of the ingress of foul air to the lamp at the top and bottom of the glass, and to allow for expansion, he introduces at those parts an elastic packing ring, or washer, of vulcanised India-rubber, and at the top and surface of the glass is prevented.

F. W. Darne, Swansea, and D. Thomas, Cwmavon, Taibach, have taken out a patent for Picks or Mandrils, such as are used for cutting coal and other mineral. According to this invention, in place of making the bead of the mineral.

F. W. Darne, Swansea, and D. Thomas, Cwmavon, Taibach, have taken out a patent for Picks or Mandrils, such as are used for cutting coal and other mineral. According to this invention, in place of making the head of the pick or mandrill in one piece, the patentees make the point or points separate from the other parts of the head, and so that they can be removed and replaced at pleasure. By this arrangement, when the points become blunt, they can be removed, and sent to the surface to be sharpened whilst, in the meantime, the pick may continue in use, another point having been fitted into it. The patentees form in the head of the pick a socket sockets, on one or both sides of the hole, which receives the handle, and they make the morable steel points with stems, which fit into these sockets, and are secured by locking screws, or other convenient means.

The Rhymney Railway shareholders may well congratulate themselves on the success which has attended the directors' application for running powers over the Great Western, from Hengold Junction to Aberdare and Hirwain. For a small company, it is astonishing that the Rhymney have held their ground so well, as in almost every step they took they have met with determined opposition from their powerful neighbours, the Taff Valc. The success of the application referred to, combined with the carrying out of the Cardiff and Caerphilly section, will render them not only independent of the Taff Valc, but strong competitors of that company for the most valuable part of the latter's traffic, and that is the conveyance of Aberdare coal to Cardiff for shipment. In point of distance there will be no appreciable difference in the Rhymney and Taff Valc routes, and if the former only secure 20 per cent. of the traffic, which it is reasonable to suppose they will, their receipts will show an enormous increase. The running powers are to come into operation when the Cardiff and Caerphilly section is completed, and it is satisfactory to find that the contractors for this branch are mak

with 186 tons of copper ore, for H. Bath and Son; the John Rosser, from Tile Cove, with 200 tons of copper ore, for H. Bath and Son; the Tavistock, from Antwerp, with 8974 cakes of zinc crude, of 100 tons, for Governor and Company of Copper Miners; 23 tons of old copper, in bulk, for Vivian and Sons; Europa, from Bilboa, with 239 tons of iron ore, for W. H. Tucker and Co,

FOREST OF DEAN.—There is little change to note this week in the iron trade of the district. If anything, a little tone has been imparted by the result of the late Ironmasters' Meeting in Staffordshire. At all the Forest Dean works there is no scarcity of orders, and the iron lately sent off has not only been in more than average quantities, but fully up to the standard in quality. While the adoption of the hot-blast over has enabled makers to increase, or at least facilitate, their "caste," in some instances the iron does not, neither has it, turned out so generally good as when made under the old system. The more frequent plan is such case, and which course is adopted here, is to re-cast before the "brand" is finally attached. The adoption of such a course, expensive though it be, more than compensates in the sale of the iron. This plan, too, may to some extent explain why the Forest iron is so eagerly caught up, and why a good average business is done.

There appears to be a slight diminution in the demand for household coal this week; it must be admitted, however, that this is far from being of ageneral character, it being more applicable to the part of the trade effected by the coal merchants. There being no stock at any of the pit-banks, any temporary dunless cannot materially interfere with the "put outs" at the various collieries. It will be remembered that some of the coalmasters are under contracts with their customers to supply a certain quantity of coal per month. In such cases a regular trade can be relied upon. The immediate or local trade upon to sluggish. This item would, to some extent, influence the "call." During the winter months streams of conveyances may be seen wending their way to the collieries from the surrounding neighbourhood. It is very different just now, as in an agricultural district which encircles the Forest, wood is substituted for coal.

The doubts expressed at the beginning of last month with regard -There is little change to note this week in th

fittutes for coal.

The doubts expressed at the beginning of last month with regard
to the final opening of the Forest of Dean Central Railway bids fair to be more
than verified by absolute fact, inasmuch as since the early part of June last this

unfortunate line has been under the special care and watchful eye of a person who represents the Sherin of the county of Gloucester. This is much to be deplored for many reasons. In addition to the existing claim by the Crown, there are other matters both ugly and omnious, and which certainly foreshadow anything but good. The original shares cannot be worth holding, as the railway has been so much encumbered with legal and other expenses. The line is actually completed to Moseley Green, and might up to this point be opened for traffic.

The all-absorbing topic in this district is the elevation of Sir John Bolt to the Bench in the Court of Appeal. This appointment has caused a vacancy in the representation of the western division of the county of Gloucestershire. Hitherto West Gloucestershire has been represented by a member of the present Government. Mr. Charles Berkeley, second son of Lord Berkeley, who a few months since received a numerously signed requisition, has yielded to the wishes of his friends, and has issued an address, offering himself as a representative in the Liberal interest. What steps the Conservative jury will take is, up to this date, not known in this district. A meeting has been convened at Bristol, the result of which is kept secret. Sir George Jenkinson has had his eye upon the fertile valley of the Severn for some time, and yearns to serve in Parilament his Gloucestershire Irlends. The young Marquis of Worce eter, who is under age, is also spoken of. The influence of the Berkeley and Beaufort houses is great, and both have antecedent claims. It is a matter of regret that some gentleman in the Forest of Dean, or more intimately connected with the Forest, cannot be found. The district is admitted by all parties to be one of great commercial importance. The various interests of the Forest of Dean have never had a good exponent in the House of Commons. The nomination is fixed for the 25th of July, at Dursley,—[It has since been ascertained that Col. Somerset, cousin of the Duke of Beaufort

REPORT FROM DERBYSHIRE AND YORKSHIRE.

JULY 18.—A slight improvement has to be noticed in the Coal and Iron Trades of Derbyshire, so that the prospects are more encouraging than they have been. In addition to a large output of pig, there is a fair business being done in most qualities of iron, including gas and water-pipes, hoops, bars, and sheets. There is not so much doing in rails, most of the mills being very quiet. In Coal there is rather more doing, still several of the collieries are working short time, whilst more doing, still several of the collieries are working short time, whilst others have been obliged to stack to some extent. There is a full average trade being done to London and the South, Clay Cross, as usual, being the largest exporters. There is no alteration in the southern part of the district relative to the dispute between the colliery owners at Church Gresley and Swadlinoote and their men. The offer of the deputation which lately met the representatives of the proprietors, "that all the men should resume work, if the employers would withdraw their opposition to the Miners' Union, the men pledging themselves not to make any demands on their employers or agents, except such as are in common with the working of collieries of the district, or as may be mutually agreed upon by both parties," has been refused in very peremptory terms. Mr. Eley, on the part of the masters, has returned the answer that the coal proprietors "refuse to entertain the matter in any way whatever." As there are upwards of 300 men now out, it is not unlikely that a considerable fuse to entertain the matter in any vay whatever." As there are upwards of 300 men now out, it is not unlikely that a considerable number, having experienced the blessings of living on charity, and dining on the melodies chanted by that most indefatigable of peridining on the melodies chanted by that most indefatigable of peripatetic agitators, Mr. Brown, late of Hunslet, near Leeds, but now of Nottingham, will shortly return to work. Already many of them show symptoms of being disgusted with the 5s. a week and two or three loaves of bread, and yearn for the beef and beer to which they had been accustomed. In fact, the attempt to form a Union in Derbyshire has been a signal failure so far, owing to the position at the onset taken by the masters; but as Mr. Brown is just now in the position of "a pig without a teat," no doubt he will work hard to maintain his position, and gain members for the Union; still the fates are against him, and it is evident he will have to seek fresh pastures and more convenial materials. and more congenial materials.

Having terminated the enquiry into the trade outrages, the Com-Having terminated the enquiry into the trade outrages, the Comnissioners have left Sheffield to something approaching peace and quietness,
lthough there still lingersa good deal of animus behind. The two daily papers
of which the town can boast have taken the matter up warmly, but the backer
of the Unionists has come to grief. He, however, obtained a certificate from
off. Overend to the effect that the conduct of the persons attending the sittings
vas in every way exemplary; thus, to some extent, whitewashing the parties
whose risible faculties were so often excited at what sober-minded persons would
onsider matters not only disgraceful to the individual under examination, but
o the town at large. Unfortunately, the paper alluded to has had its own reorts quoted, and the language as given in them as made use of by Mr. Overend
hows that that gentleman has, with pardonable weakness in favour of his own
own, endeavoured to forget some of the scenes in which he took a part. Enough,
owever, has been said on the subject and to Parliament and the Pall Mall
acazetic—which has taken such a very deep interest in the matter—the future had
etter be left. The staple trade of the town may be said to be quiet, and in
erry few branches is there any apparent activity. In the heavy steeb branches
here is a fair amount of business being done, but in general cutlery the demand
to only limited. Some of the houses in the file trade are kept fairly going, but
there are fair from busy.

The ironworks throughout the South Yorkshire district are now The ironworks throughout the South Yorkshire district are now arounably off for orders, and nearly all of them are working full time. In pars, sheets, and hoops there is a fair demand, as there is also at one or two stabilishments for boiler and ship-plates. Pipes and castings for palisadings are being largely manufactured in the neighbourhood of Chapeltown, principally or exportation. The steel works continue active, and a large quantity of rails rom Bessemer steel are being turned out daily at Penistone and other places. There is rather more doing in coal, and during the week there has been an in-reased tonnage of slikstone and other places. Primary is a superposed to the parts of Hull, Goole, and Primsby has improved, and a good deal of steam coal is being sent to those places or shipment to France, the North of Europe, and the east coast. To the neighbourhood of Manchester there is an increasing trade being done, chiefly in entine coal and slack. Although several of the collieries continue to work short line, still such is not as general as it has been.

At the Oaks Colliery the work of cleaning the No. 1 shaft continues, but the progress made is necessarily slow. The walling of the

At the Oaks Contery the work of clearing the No. I shalt continues, but the progress made is necessarily slow. The walling of the shaft has been repaired, new conductors carried down as far as the men have gone, and there are about 110 yards of stuff to be got out.

Mr. Southern, the recently-appointed Government Inspector of Mines, has been indefatigable in making himself acquainted with the collieries in the southern parts of the district, and, from the great interest he appears to take in his work, considerable benefit will downtless be the result. Instead of waiting for an accident to come. interest he appears to take in his work, considerable benefit will doubtless be the result. Instead of waiting for an accident to occur, he does what has long been unknown in the locality. He visits collieries impromptu. On Tuesday he went down to the Oaks, and also called to see a new pit which has just been sunk at Pinder Oaks, near Barnsley. His attention with regard to the last-named pit being called by a paragraph in a Leeds paper, in which it was stated that "the new coal is said to be free from sulphur of a fiery nature." He did not, as might be expected, find the phenomenon of sulphur that was not of a fiery nature; indeed, no one ever heard of it before; but, as it was only a few hundred yards from the Oaks Colliery, he naturally enough found the explosive gas peculiar to almost every working in the district.

The improved Patent Coal-Cutting Machine, patented by Messrs. Farrar and Booth, was tested on Monday at the North Gawber Colliery, and with the most satisfactory results. It will be sent to the Manchester district, in November next, to compete for one of the

Manchester district, in November next, to compete for one of the prizes of 500l., 300l., and 100l., offered by the coalowners of Lancashire and Cheshire for the best machine adapted to the cutting of certain seams of coal.

ertain seams of coal.

The opening of a new colliery at Denby, in Derbyshire, on land beonging to Mr. W. D. Lowe, who is also the proprietor, was celebrated on Thursay, when upwards of 300 of the workpeople sat down to a substantial dinner, ver which Mr. Lowe presided. After dinner a few speeches were made, and he party adjourned to a field, where a number of rural spots were indulged in, verything passing off most agreeably.

A company is being formed, with a most respectable and influential irection, to work the Moss Hall Colliery, in Ince-within-Mackerfield, Lancaster, and the Low Hall Colliery, Hindley, with other concerns. The promoters and irectors are—Messrs. John Lathan, M.D., Millgate-street, Wigan; Richard hristopher, Ince Green Lanc, Wigan; Oliver Holden, Cheanut-grove, West Derby, dverpool; George Caldwell, the Grove, West Houghton, Deane, Lancaster; as Multishead. Cambridge House. Southpurt, Lancaster; Jas. Burrows, C.E. Liverpool; George Caldwell, the Grove, West Houghton, Deane, Lancaster; Jas. Whitehead, Cambridge House, Southport, Lancaster; Jas. Burrows, C.E., Douglas Bank, Wigan; and Thomas Wright, Low Green, Hindley, Lancaster.

The completion of the Rye-field Pit at Denby, Derbyshire, has been

the occasion of much rejoicing. The shaft was commenced on Dec. 5, 1864, and the seam was reached on June 25, the works having been carried on under the direction of Mr. J. T. Woodhouse, of Derby. carried on under the direction of Mr. J. T. Woodhouse, of Derby, The new shaft is the finest in the neighbourhood, heing 296 yards deep, with a clear diameter of 18 ft., and the masonry is of the most substantial character, calculated to last literally for an age. As for the coal produced, it is a continuation of the well-known Kilbourne seam, about 3 ft. 9 in. In thickness; and and when in full work it is expected that the colliery will employ from 400 to 500 hands. The whole of the workmen employed by Mr. Lowe, the proprietor, were regaled with roast beef, plum pudding, and beer, in unlimited quantities. After the usual toasts had been disposed of, Mr. Lowe remarked that as they had succeeded in getting to the coal at the new works, it was fitting that they should meet together and wish each other success and prosperity for the future. He felt that their interests were identical, that they were all in the same boat, and he hoped they might work amleably together, and long keep in smooth water. He could bear testimony to the good conduct of the Denby men in the past, and he trusted they would continue to conduct themselves in an exemplary manner. He looked back with pleasure to the length of time he had known Denby, during which he had always been treated with courtesy and respect, and he should look forward with confidence to the same treatment for the future. (Cheers). He believed his family had been in the neighbourhood from 500 to 600 years, and they might be sure there was some attachment to Denby. He had every reason to be proud of the Denby popole, and it afforded him much pleasure to meet them. In proposing the health of those who were instrumental in working the colliery, he said that he believed the agents had the comfort and

and he hoped the colliery would be the means of promoting people of Denby for many years to come.

At the inquest at Batley, near Dewsbury, upon the Butterworth and Elizabeth Priestley, who were killed by Thursday evening, Mr. F. Longridge, engineer, of Manches boiler had been corroding underneath for eight years, and have occurred much earlier, but that the boller was embe A verdict of "Accidental Death" was returned, the jury end engine-tenter for not exercising due care, but saying that it is a suppossible.

nally responsible.

On Wednesday an unusual tribute of respect was paid to a man named Emms, who was killed by a fall of coal at the Agnes Main of man named Emms, who was killed by a fall of coal at the Agnes Main of mains of the deceased to the grave, all decently attired in fall moment distance to walk was upwards of four miles, and the conduct of the decorous in the extreme. On reaching the church the Dead March is a very impressively performed by a rising young organist, Mr. A. Gill, of Neparish church. The service was listened to with deep attention by an probably never heard such words before.

THE OAKS EXPLOSION—ACTUARY'S REPORT.—The reactuary (Mr. W. P. Patteson, of the Commercial Union Assurance don) has just been received by the Barnsley Relief Committee for ment of the above fund. Two elaborate tables have been prepared ing the amount required according to the present scale of allowance is, in round number of estimate for the present scale of allowance is, in round number of allowance is, in round number of allowance is, in round number of allowance according to the lowest scale is 5s, per week for each allowance according to the lowest scale is 5s, per week for scale allowance according to the lowest scale is 5s, per week for scale of the control of the scale of the present scale of the present scale of the present scale of the present scale is 2s, per week for scale in the present scale of the present scale is so, per week for scale in the present scale is 2s, per scale in the present scale is so, per week for scale in the present scale is so, per week for scale in the present scale in the scale in t

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE JULY 18.—There is nothing new to say about the Iron Trade is week. The week between the Preliminary and the regular (or terly meetings is usually a quiet one, and this is no exception. To position of the trade is this. There is a clearly urgent necessity more iron than is being made, and which financial difficulties financial fears prevent being ordered until the last moment. Applying the property of the restoration of confidence that are enterprises waiting for the restoration of confidence. financial fears prevent being ordered until the last moment age there are enterprises waiting for the restoration of confidence start, and there are no strikes; and hence a generally spread viction that iron would be more in request would soon lead to see improvement. The weak point is the aspect of things in the Unit provement. start, and there are no sarines; and hence a generall spread or viction that iron would be more in request would soon lead to as improvement. The weak point is the aspect of things in the Unit States. They have there two elements which necessarily restent certainty—an inconvertible currency and a high scale of protest duties. People cannot be sure, cannot be fairly certain thatif the make a bargain to-day, expressed in dollars, that a dollar will be the same value in three months hence; or that the artificially his prices to which a protective tariff leads may not collapse, and he involve loss in the fulfilment of future contracts. The resolution the men, quoted in the Mining Journal of Saturday last, affirming necessity of imposing restrictive duties on the immigration dvers men, caps the climax of the absurdity of a protective policy. It is more; it dissipates the idea that Mr. John Morley and others ha propagated, that workmen's associations are based on a lofty ciple of self-abnegation for the good of the whole, since this deal to prevent European workmen from coming to share the same a really narrow selfishness. The fact is we are all very much alled and no class has a monopoly of wisdom or virtue. We may he that protection will fall in America by the force of the demonstrate of its own adoption to the utmost extreme; but how long first! In dividual interest, real or supposed, upholds it, and that is fact that the resulting and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and that is fact that the supposed upholds it and the supposed upholds it and the suppo that protection will fall in America by the force of the demonstration of its own adoption to the utmost extreme; but how long first! I dividual interest, real or supposed, upholds it, and that is far stong at any rate far more on the alert, than the general sense of the rail weal, until time shall slowly impress on the whole communithe folly of the course, which is very much like striving to make the folly of the course, which is very much like striving to make a gravity, in which case there is always the danger of adestration of the total course, with the United States will never be steady us protection is banished from the faith and practice of the nation.

flood. Our trade with the United States will never be steady un protection is banished from the faith and practice of the nation. A dreadful accident occurred on Thursday, by the bursting of tuyere at one of the blast-furnaces of the Parkfield Iron Company, sear Wore hampton, which caused the death of two men, and severe injury to other. I tuyere that exploded was a new one, and had been worked for the first timeth day. At 6 o'clock in the evening the furnace had been tapped as usual, and ecased, with a man named Higgins, had not been long at work when the tight burst. On examination it was found that in some way or other a hole was in the nose of the tuyere, and the fire thus getting to the water with which tuyere is kept surrounded to preserve it the explosion took place. So far an furnace itself was concerned, the damage was so slight that it was at one paired, and it has since continued in operation. The deceased themsites in tributed the occurrence solely to accident, and a verdict to that effect was terriday returned by a coroner's inquest.

On Tuesday a man named John Jones was killed at the blast-im naces of Messrs. Groucutt, near Bilston, owing to an explosion, arising from

aces of Messrs. Groucutt, near Bliston, owing to an explosion, arising from teaking of one of the tuyeres. The deceased's duty was to watch the tuyen and had be done so carefully his life would, probably, have been saved. In the appeal against the conviction of the Darlaston Steel aron Company, for an infraction of the Truck Act, Mr. Justice Blactburk ecided that the objection that the defendants could not be convicted been hey are a company was frivolous, and dismissed a summons applied for by a notate, with costs.

Mr. James Saurdons the company was adants, with costs.
Mr. James Saunders, the owner of a colliery at Darlaston, was

onday convicted, on the information of Mr. Baker, the inspector of Mar. Baker, the inspector of Mr. George Holt, aving a shaft unfenced, and was fined 4l. and costs. Mr. George Holt, ame place, was fined 2l. 10s. and costs in each of two cases, for a like off

THE FACTORY ACTS EXTENSION BILL, AND THE IRON TRADE-We alluded last week to the somewhat unsatisfactory state in whith this matter rested, owing to the refusal of the Select Committee receive evidence from the members of the iron, or other trades seriously affected by the Bill. There is no doubt that the iron trades in the seriously affected by the Bill. this matter rested, owing to the refusal of the Select Committee is receive evidence from the members of the iron, or other trades mes seriously affected by the Bill. There is no doubt that the iron that fully expected to be allowed an opportunity of submitting evidence and, in fact, it was on this assumption entirely that they asked for the matter to be referred to a Select Committee. However, though the plan adopted lyth Committee was not the one contemplated by the trade, and though they have been unable to lay before this body their views upon several of the more impetant points connected with the Bill, they have been ably represented by the parliamentary agent, Mr. Parkes, who has been heard, informally, on seen occasions upon the "case" of the iron trade, and who has been in constant of the committee of the committee. We are glad to find that bear all the points raised by the iron trade have been conceeded, which is occlaim evidence that the trade had good grounds for urgently pressing their objective upon the notice of the House. It was, from the very outset, clearly see its most important modifications would have to be introduced before the Bill own timportant modifications would have to be introduced before the Bill own timportant modifications are relating to the definition of a "factory" have been made, but lish eshedule that the more important modifications are introduced. In the schedule that the more important modifications are introduced. In the schedule that the more important modifications are introduced. In the schedule that the more important modifications are introduced. In the schedule that the more important modifications are introduced. In the schedule that the more important modifications are introduced. In the schedule that the more important modifications are introduced. In the schedule that the more important modifications are introduced. In the schedule that the more important modifications will apply to reason the schedule place, we may all under the schedule that the more important

JULY 20, 1867.

Sybe found impractible, or which may require modification. The iron trade, sybe found impractible, or which may require modification. The iron trade, solverly, owe is to the watchfulness and care of a few individuals connected sidetirely, owe is to the watchfulness and care of a few individuals connected sidetirely, owe is to the watchfulness and care of a few individuals connected sidetirely, owe is to the watchfulness and the side of the watchfulness and the watchfulness and in one steffere watchfulness and in the watchfulness and in one steffere watchfulness as any body of manufacturers to promote and encourage sails encation; but they also maintain that the special circumstances of small be taken into account, and that thus every effort shall be self in the new Bill; and those who have given their constant attention to this side in the new Bill; and those who have given their constant attention to this side in the new Bill; and those who have given their constant attention to this side in the course of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in discourse of procedure, it must be remembered that they arose from side in the side in the

THE PARIS EXHIBITION-No. XII. [FROM OUR OWN CORRESPONDENT.]

although hitherto less has been done toward the development of MINERAL RESOURCES OF NOVA SCOTIA than of those of many per parts of North America, an examination of the collection exthe parts of North America, an examination of the conection ex-bited at Paris will be sufficient not only to prove that there is no ket of minerals in the province, but also that there is an ample field the profitable employment of British capital. Amongst the iron as are some fine titaniferous iron-sands from various localities; agnetic iron, which is believed to exist in considerable quantities, well as specular iron, brown hematite, the ores being rendered far age interesting than they otherwise would be by the specimens of enteresting than they yield, and of cutlery manufactured from companying them. There are specimens of wad, manganese, pyrolusite, all of which are found in large quantities. Mineral deprolusite, all of which are found in large quantities. Mineral dist exist in large quantities, and several colours and qualities are sen, which have been extensively used, and found to answer admisty for both buildings and vessels. Native copper and ores of per are also exhibited, but the country has not yet been sufficiently pored to permit a definite opinion to be formed. There are two serals, however, which will probably make some noise hereafter, one connected with the gypsum of Windsor, and proved by Prof. or to be natroboracalcite, containing 44 per cent. of boracic acid, at the other cryptomorphite, which yields 59 per cent. Marbles, astones, clays, moulding sands, and various other stones applicable industrial purposes are also shown, and make up a fine, though sell, collection. I have made many enquiries, in the hope of dissering that the beautiful soft variegated slate exhibited could be piled to some commercially useful purpose, but can obtain no satistory answer. It has various concentrically arranged bands of ferent colours, and might, one would think, be successfully applied purposes of ornamentation. It is quite as beautiful as the Alum y sands, but much less fragile, and it has been suggested if it could supplied in large quantities at a cheap rate it might be used to suffacture time, piece frames or headers. upplied in large quantities at a cheap rate it might be used to unfacture time-piece frames, or brackets for the support of marble slightees; but fears appear to be very generally entertained, as its with almost as much ease as soapstone, that its use must be ed to purposes of pure ornament, where it will not be much sub

NOVA SCOTIAN GOLD STATISTICS.—To ensure the portion of Nove ON SCOTIAN COLD STATISTICS.—To ensure the portion of Nova tian exhibition representing her auriferous resources to be readily reciated, the local Government have adopted the very excellent istical table of Mr. A. HEATHERINGTON, and a tetraglot—English, neb, German, and Spanish—edition of it, with a suitable intro-tion, has now been issued, for the benefit of visitors to the Exhi-on. It is remarked that the mineral resources of Nova Scotia are ingel to secure for her a prominent position among actions, which is the finely to secure for her a prominent position among actions. sime to secure for her a prominent position among nations; but thout some publicity and demonstration by figures, it would be peless to expect recognition by foreigners of those resources or sir importance. The small gilt pyramid and the few, though rich, etimens of auriferous quartz sent to Paris but imperfectly represent ecapabilities of Nova Scotia as a gold-producing country, whilst salso possesses mines of coal, iron, and other minerals; and, unlike the other rich mineral districts on the Arceivan certification. of the other rich mineral districts on the American continent, a street other from mineral districts on the American comment, is free from pestilential diseases, from poisonous reptiles, from animals, and from treacherous Indians. The subjoined table was the yield of gold from 1862 to 1866, both inclusive, for the al districts :-

eral districts:—

District. Miners employed. cwts., 100 ibs. Oz. dwt. gr. per ton. Value. per ton. Oz. dwt. gr. gr. Oz. dwt. gr. oz. dw 1,107,106 ..2,038,947 .. 91,958 10 16 .. 116 2 21 .. £8

HE HICKS ENGINE.—In a former letter I mentioned the HICKS as being, next to the great American locomotive, the most ful machine in the Exhibition, and promised a mechanical deautiful machine in the Exhibition, and promised a mechanical de-pition of it. It not unfrequently happens that the most simple chines are the most difficult to describe, and the HICKS engine ms to confirm this—there are scarcely a dozen separate pieces of tal connected with it, and it is not much more likely to get out of ier than a gas-pipe; yet this very simplicity almost prevents ac-ter than a gas-pipe; yet this very simplicity almost prevents ac-ter description. The engine really consists of four cylinders, placed and two, parallel to each other, each pair being, as it were, a con-nation of the other pair. Valve rods, packing boxes, eccentrics decentric rods, rock shafts, and reversing links may be disposed at once, no such, in this engine, useless appliances being recogdecentric rods, rock shafts, and reversing links may be disposed at once, no such, in this engine, useless appliances being recoged, and to say this of a double engine, with action similar to that a locomotive, would alone be a sufficient proof of its simplicity, engine has two cranks, at right angles to each other, in the same fit, which is furnished with bearings in a piece cast solid with the inders. With these cranks hollow pistons are connected, which iprocate in the cylinders by the action of the steam, in the same amer as in the locomotive engine. The shaft is of the best wroughts, the crank dises are of iron, and the crank pins of best steel. Shaft is turned, the dises turned and bored, and the pins finished, sised tightly together and keyed, and afterwards put in the lathe, it he shaft turned again to finish. It is made of the same length has, to reach the same distance on each side of the engine, with balance-wheel pulley on each, and to drive two belts, dividing the it. The connecting rods are of cast-iron, with brass facings, and they to take up the same distance of cast-iron, with brass facings, and blance-wheel pulley on each, and to drive two belts, dividing the tk. The connecting rods are of cast-iron, with brass facings, and h keys to take up the wear. When the engine is once finished it impossible to get it out of line. The cylinders are bored in line, the crank-shaft bearings are bored at right angles in the same Be, and on the same centre line; and as the cylinders are cast in a piece with the shaft bearings, it is obvious that if they are once the true they must permanently remain so. There are no valves, taker the pistons themselves act as valves. Each piston receivher the pistons themselves act as valves. pistons themselves act as valves. Each piston receiven it is at the centre nearest to the cylinder head, is the boiler pressure from any desired part of the stroke, and aly out off entirely for suddenly out off entirely from its supply, allowing the steam

to expand to the extreme end of its motion. Each piston forms a valve for the one next beside and parallel to it; the two on one side of the crank shaft admitting and releasing steam for each other, and those on the other sides doing the same; indeed, either pair will operate without the help of the others. The cylinders being placed side by side as close as possible, and in the same plane, passages are made for steam and exhaust leading directly from one to the other. The pistons are hollow, and are provided with ports in their circumference, which open into the passages between the cylinders when at half-stroke, connecting them with outside passages in the cylinders communicating with the boiler and air. When either piston is at half stroke, that next to it is at one end of its stroke, ready to take or exhaust steam, and, consequently, it will be admitted and released at the right time. As each piston moves correctly for the admission of the steam to that next to it, so does each piston have the correct motion in itself to cut off its own supply; as the steam on its way to the cylinder head is allowed to pass through a channel in the piston itself, which, although wide open when it is admitted, is closed at any desired point on the forward motion, thus interfering with its flow, and cutting it off, as it is called. The exhaust steam passes through this channel, but from it through another and independent opening and passage, which is open during the whole return stroke, unless, if desired, it be partially closed to allow the piston to cushion steam at the end of its return stroke. The engine is reversed by a simple slide valve, which, when moved in one direction, admits steam from the boiler to one set of passages, and when moved in the opposite direction, admits it to the other set, or what has before been the exhaust set. It is found that cutting off the steam at half stroke gives the best result, economically, in these engines, as by that means one cylinder is always in full connection with the boiler, and ing under expansion. Throttling and wire-drawing the steam is a bad action, unless the valves are so arranged as to cut off at about half-stroke; for, as the piston moves slowly at each end of its stroke, the pressure of steam from the boiler, which is throttled by the gothe pressure of steam from the boiler, which is throttled by the governor and reduced while the piston moves fast, will fill the cylinder at full pressure when no cut-off is used, and so throw away the same amount of steam as if it had to be used at full pressure during the whole stroke, without getting any benefit from it; but when the engine cuts off at half-stroke, the steam enters the cylinder at full pressure on the centre, and is gradually reduced as the piston increases in speed until it is entirely cut off, obtaining all the economy resulting from auting off each with the increase of each

creases in speed until it is entirely cut off, obtaining all the economy resulting from cutting off short without the inconvenience of condensation in the cylinder.

The valve system employed in the Hicks engine has also many advantages. The valve lead for the steam and exhaust ports is done by putting a slight lap on the passage from the cut-off channel. The ports are opened much faster than by any ordinary slide valves, and open with so much accuracy that the exhaust goes out without back pressure, at any speed and at the proper time, exactly on the centre. By closing the channel port slightly before the piston reaches the end of its return stroke, any desired amount of cushioning may be obtained. The steam is not allowed to enter the centre chest where the crank shaft is. This centre chest is for the purpose of keeping the shaft and conis. This centre chest is for the purpose of keeping the shaft and connecting rods from the dust and dirt, and to retain the water which comes from the pistons in the chest, to assist in lubricating the working parts, and in keeping the cylinders and pistons warm, to prevent the usual condensation of steam in the cylinders. As the ports are all placed in one-half of the circumference of the piston, and nearly all on the bottom, they are tight, and cannot leak steam any more than well-made slide valves—indeed, as far as the valve action is concerned, they are round slide valves, acting as pistons, cross-heads, and valves. The bearings are so long that any ordinary wear would concerned, they are round slide valves, acting as pistons, cross-heads, and valves. The bearings are so long that any ordinary wear would not affect them, and the steam and water make such a perfect lubrication that the pistons soon become as bright and black as ordinary slide valves, and as little liable to wear as slide valves in that shaft, which is known to be very slight. There is precisely the same amount of friction on the piston as there is on the slides of an ordinary engine of the same stroke and power, but with greatly increased surfaces to sustain the wear; and by dispensing with the valves and other parts the friction is still further reduced. The pressure of the steam does not create friction. By the arrangement of ports, the pressure which is due to the exhaust ports or cup of the slide valve is entirely avoided, and the steam ports are placed so nearly opposite that they balance each other; the pressure, if any, being arranged to pass upwards, and lift the weight of the piston, and thus lessen the friction. The surface of the cylinder being exposed to the air does not expand quite as much as the pistons, which are always in contact with the steam, and thus the pistons always wear tight, and, after running a short time, make a perfect fit. The steam in the pistons acting as valves is not discharged at all, but is reserved to supply the next stroke, acting as a steam chest; it is not even expanded but maintains its pressure and for use. The steam in the supply the next stroke, acting as a steam chest; it is not even expanded, but maintains its pressure ready for use. The steam in the cut-off channel is expanded, and is discharged as expanded steam; the only steam thrown away or wasted is in the short port between the cylinders, never more than 2 inches in length, and the inventors are enabled to use less clearance at the end of the piston, as there is no necessity for leaving room for the steam way, as in other engines; the channel in the piston taking its place, and leading the steam directly to the cylinder head without a circuitous route.

Large numbers of the engines have been manufactured by the Hicks Engine Company of Liberty-street. New York, and in practice, it is

Large numbers of the engines have been manufactured by the Hicks Engine Company, of Liberty-street, New York, and in practice it is found best to make them with the same stroke as the bore, that being done for various reasons, as two cylinders and cranks acting together are, in starting force, equal to one cylinder with double the length of stroke; and as they are able to run each piston as fast as in the ordinary engine, and obtain double the revolutions, to use smaller pulleys and to obtain with the same bore and speed of piston, double the power; and while a single engine would not start at all when on its centre, this has no dead points—it has the same action as a locomotive, and although the force is not entirely uniform, it is so nearly so that it will start under a load at any point, and needs but little balance wheel force, even with the cut-off. These pistons, when acting together, are not much, if any, heavier than the piston rods, cross head, and connecting rod of an ordinary engine; but in neither case is there loss of power, excepting friction, as the force rods, cross head, and connecting rod of an ordinary engine; but in neither case is there loss of power, excepting friction, as the force required to start the weight and to drive it up to its greatest speed is just equal to the force delivered by the piston to the crank incoming to rest; and particularly is this action desirable in a double engine, cutting off at half-stroke, as this weight reduces the necessity of a balance wheel, and takes its place on the last half of each stroke, making up the force lost by the reduction of the pressure of steam by expansion. The engine is lubricated entirely from the centre chest, tallow being put in oil cups and allowed to drop on the crank; it then falls on the water always standing there, and is thence thrown over all the bearings into the piston, to the connecting rod ends, and over all the parts, by the motion of the cranks.

Royal Cornwall Polytechnic Society.

THE THIRTY-FIFTH ANNUAL EXHIBITION OF ARTS,
MANUFACTURES, &c., will take place at the POLYTECHNIC HALL,
FALMOUTH, on FRIDAY, August 23, and following days.
All articles intended for prize competition to be delivered (carriage paid) not
later than Friday, August 16th. Inventions and improvements should be illustrated by accurate models or drawings, with explicit descriptions. Papers or
essays competing for any of the prizes or premiums should be sent in on or before the 1st of August, so as to allow of time for perusal by the judges.
Any further information may be obtained either personally or by letters of
application to—

J. C. STEPHENS, Assistant Secretar

Folytechnic Hall, Falmouth.

C O A L C U T T I N G M A C H I N E R Y.—
The WEST ARDSLEY COMPANY having, by recently patented improvements, perfected their coal cutting machinery, worked by compressed air, are
NOW READY to MAKE CONTRACTS for the CONSTRUCTION and USE of
their MACHINES.
The results of twelve months' experience in the working of these machines, by
the West Ardsley Company, have proved most satisfactory, their use being found
to CHEAPEN the COST and IMPROVE the average SIZE of the COAL to
LIGHTEN the LABOUR, and also to MODIFY the SANITARY CONDITION
of the MINE.
All communications to be made to Messrs. FIRTH, DONNISTHORPE, and BOWER.
NO. 8. Riffannic street in the conditions of the MINE.

All communications to be made to Messrs. Firth, Donnisthorpe, and Bower, No. 8, Britannia-street, Leeds.

NOTICE.—The WEST ARDSLEY COMPANY, having reason to believe that their patents are being before the to believe that their patents are being infringed upon, hereby give notice that they will TAKE LEGAL PROCEEDINGS AGAINST ALL PARTIES who may MAKE FOR SALE, or USE ANY MACHINERY in the construction of which any such INFRINGEMENT is MADE. RAILWAY WAGON WORKS, BARNSLEY. ESSRS. G. W. AND T. CRAIK

ARE PREPARED TO SUPPLY COAL AND COKE WAGONS

OF EVERY DESCRIPTION. Either for cash, or by preferred payments through wagon-leasing companies. WAGONS PROMPTLY REPAIRED.

WILSON'S PATENT SMOKELESS FURNACE.

LICENSEES AND SOLE MANUFACTURERS HICK, HARGREAVES, AND CO., SOHO IRONWORKS, BOLTON. These furnaces are new in full operation, and are giving most satisfactory results, both as regards economy in fuel, complete consumption of smoke, and small wear and tear of furnace. They may be seen in daily operation at these works.

PATENT IMPROVED PICKS. FOR COLLIERS AND MINERS.

For terms and information, apply to the patentees,— F. W. DAHNE, Engineer, Morriston, Swansea; or DAVID THOMAS, Mineral Agent of the Governor and Company of

Copper Miners, Cwm Avon, Taibach GLAHOLM AND ROBSON,

HENDON PATENT ROPERY, SUNDERLAND, MANUFACTURERS of ALL DESCRIPTIONS of STEEL, IRON, and HEMP ROPES for COLLIERIES, SHIPS, &c.

HERBERT AULT, ENGINEER, DRAUGHTSMAN AND PATENTEES' ASSISTANT,

VALUER OF MACHINERY, IRONWORKS, RAILWAY
and COLLIERY PLANT, and other works; DESIGNER and CONRACTOR for every description of RAILWAY and COLLIERY PLANT, CONRACTORS' and other LOCOMOTIVES, HOT AIR and HOT WATER APPAANTIS & C.

RATUS, &c.
Preparer of models &c., for patentees, and every other assistance given upon
the most moderate terms. Estimates given for taking down and erecting works
and other machinery.
Applications addressed to Herbert Ault, Netherton, near Dudley, will meet
with prompt attention.
N.B.—Herbert Ault begs to call the attention of gentlemen about to put up
greenhouses or conservatories to his large assortment of designs at exceedingly
low prices.

BAGILLT OIL COMPANY (LIMITED), MANUFACTURERS OF BLACK GREASE
COLLIERY WIRE ROPES, TRAMS, WAGONS, &c., 25 PER TON.
TORCH AND LAMP OIL, 1s. PER GALLON (Casks free).
LUBRICATING OIL, 1s. PER GALLON (Casks free).

O W L I N G I R O N C O M P A N Y,
BEST CRUCIBLE CAST-STEEL TYRES, AXLES, CRANK
AXLES, BOILER PLATES,

Also COG WHEELS, and other CASTINGS.

This company is prepared to furnish the above-mentioned articles in CAST

"BOWLING IRON."

Also BOWLING WROUGHT-IRON SOLID WELDLESS TYRES, of any size and to any section.

TRONG WIREWORK, the cross wires equally bent; also BEST STAMP GRATES, both of iron and copper, and punched copper plates;
DITTO TUBED. All the above promptly supplied at
W. ESCOTT'S MINING MATERIAL DEPOT,
TAVISTOCK, DEVON.

THE VAL SASSAM MINES COMPANY (LIMITED).—
Notice is hereby given, that the directors have THIS DAY made a CALL
of TEN SHILLINGS PER SHARE, payable on the 23d day of August next.
By order of the Board, W. G. WILLIAMS, Sec.
6, Queen-street-place, London, E.C., July 18, 1867.

THE AUSTRALIAN MINING COMPANY

In E. AUSTRALIAN MINITED TO UNITANY
(Incorporated under Royal Charter).
Notice is hereby given that the TWENTY-SECOND ANNUAL GENERAL
MEETING of the shareholders of this company will be HELD at the London
Tavern, Bishopsgate-street, E.C., on MONDAY, the 29th inst., at One o'clock
P.N. precise.

Tavern, Bisnopsgace-sites, and, and balance-sheet for the past year.

To receive the report, accounts, and balance-sheet for the past year.

To elect directors in lieu of Henry Collier, Esq., who retires by rotation, and
to fill up the vacancy caused by the lamented death of Thomas S. Cutbill, Esq.
To fix the remuneration of the auditors for the past year.

To elect auditors for the present year.

Selorge Pallmer, Chairman.

U. P. HARRIS, Secretary.

No. 1, Coleman-street-buildings, Moorgate-street, London, E.C., July 11, 1867.

TAQUARIL GOLD MINING COMPANY (LIMITED), IN THE PROVINCE OF MINAS GERAES, BRAZIL.

IN THE PROVINCE OF MINAS GERAES, BRAZIL.

Capital, £100,000, in shares of £1 each.

2s. 6d. per share on application, 2s. 6d. per share on allotment.

No call to be made at a less interval than three months,
or to exceed 2s. 6d. per share.

CHAIRMAN.

H. BIRT, Esq., formerly of the St. John del Rey Mining Company.
BANKERS.

The Consolidated Bank (Limited), 52, Threadneedle-street, London, E.C.
Messrs. Walker and Lumsden, 25, Austinfriars, Londou, E.C.
Messrs. G. and T. Irvine, India Buildings, Liverpool.

SECRETARY—Edward J. Cole, Esq.
OFFICES,—2, NEW BROAD STREET, LONDON, E.C.

Prospectuses and reports, containing the fullest information, to be had of the ceretary, or the brokers of the company.

TAQUARIL GOLD MINING COMPANY (LIMITED).—
Notice is hereby given that the LIST OF APPLICATIONS FOR SHARES
will be CLOSED on WEDNESDAY, the slat inst.
By order of the Board,
EDWARD J. COLE, Secretary.
2, New Broad-street, London, July 19, 1867.

THE MID-WALES LEAD MINING COMPANY

(LIMITED).
Capital, £15,000, divided into 6000 shares of £2 10s. each. Deposit—On application, 10s. per share, and upon allotment, 10s. per share.

No call will exceed 10s. per share.

NO Call WILL EXCECT 198, per SHAPE.

DIRECTORS.

Col. BOULDERSON (late Madras Army), Southsea, Hants.

HAMERTON CRUMP, Esq. (Director of the Paraguassu Steam Tram-road Co.,

Limited), 117, Cannon-street, E.C. and Piccadilly, W.

WILLIAM J. LINDSAY, Esq. (Messrs. Grant, Kempshcad, and Co.), 46, Limestreet, E.C.

JOSEPH NIGHTINGALE, Esq. (lateH.M.'s Clvil Service), 45, Cambridge-road,

Kilburn.

JOB TAYLOR, Esq., Dixon's Green, Dudley (Chairman of the Central Snail-beach Lead Mining Company, Limited, and the Brynpostig Lead Mining Company. Limited). beach Lead Mining Company, State Company, Limited).

Company, Limited).

remuneration will be received by the directors until it is voted to them by the shareholders.

BANKERS.
The National Provincial Bank of England, Bishopsgate-street, London.
CONSULTING ENGINEER. ines), Shrewsbury, Cant John Kitto (lase of

OFFICES,-3, KING WILLIAM STREET, CHARING CROSS, LONDON.

PROSPECTUS.

This company has been formed for the purpose of acquiring the leases and extending the works of a valuable lead mine, situated in the richest lead district in North Wales, long celebrated for its immense yield of lead ores. The mine is situated in the parishes of Liangurig and Liandinam, in the county of Montgomeryshire, adjoins the Tylwch station of the Mid-Wales Railway, and sheld under lease, upon very moderate terms, for 21 years.

A large amount of valuable work is already done, two rich lodes have been epened upon by means of addit levels, and a quantity of silver-lead ore obtained; the deepest level has been driven about 100 fms., and the end of it is now within a few fathous of a rich bunch of lead which was discovered when sinking a small shaft on the top of the hill.

So satisfied are the present owners of the real bona fide value of this property, that they have agreed to sell their entire interest for the moderate sum of £6500; this sum £500 only will be paid in eash, £500 in fully paid-up shares, and the balance of £500 will be paid twelve months after registration of the company.

The Memorandum and Articles of Association contain no unusual clauses, and can be inspected at the offices of the company.

If no allotment is made the deposit will be promptly returned without deduction.

duction.

Applications for shares, with a cheque or Post-office Order for the deposit of 10s, per share, can be sent either to the bankers, brokers, or secretary.

No application for less than five shares will be entertained, and the allotments will be made according to priority of application.

Samples of the ores can be seen either at the offices or at the brokers.

Full prospectuses, with reports by Capt. John Kitto, late of the Great Laxey Mines, and Capt. Nancarrow, of the Stieperstones Mining Company (Limited), can be had on application to the Secretary at the company's offices.

TO MANUFACTURERS OF PATENT FUEL, FIRE-BRICKS, POTTERY, ARTIFICIAL MANURES, CEMENT, &c. CARR'S PATENT DISINTEGRATOR.

or REDUCING to a FINE GRANULAR POWDER from 50 to 200 tons a day according to size) of any UNFIBROUS MATERIALS, whether they be SOFT and CLOGGY, like superphosphate, wet clay, &c., or HARD and DRY, like bone sh, coprolites, burnt earthenware, minerals, coal, &c.; also for MIXING HIBROSES.

PURPOSES.

The aggregate work of the Disintegrators now in use already amounts to upwards of two millions of tons of material pulverised by them in a year, at a total saving to their users, in labour, power, &c., of above £30,000 per annum. It bears no resemblance whatever to any other mill in its peculiar combination and application of principles, nor yet in its mode of action and unique system of disintegrating matter, and has been proved to be the most novel, versatile, and efficient discovery in mills that has appeared since the invention of the flour-mills, upwards of thirty-three centuries ago.

An illustrated pamphlet, with full particulars of the above, and a long list of the addresses of its purchasers, will be forwarded, post free, on application to the Patentee, as below; and a 4-feet machine and model may be seen at the Paris Exhibition, British Section, Class 51.

THOMAS CARR, MONTPELIER, BRISTOL.

INDIA-RUBBER, GUTTA-PERCHA, AND TELEGRAPH WORKS COMPANY (LIMITED), MANUFACTURERS OF VULCANISED INDIA-RUBBER

BUFFER SPRINGS for LOCOMOTIVES and RAILWAY TRUCKS, VA SHEET, WASHERS, SUCTION and DELIVERY HOSE, TUBING: GAS, &c., MACHINE BELTING, ELASTIC STEAM PACKING in BOPE, SHEET, and RINGS, &c., &c. EBONITE

SHEET, PUMPS, TAPS, TUBING, &c., for acids and vinegar; PHOTO-GRAPHIC and SURGICAL ARTICLES, SPEAKING TUBING, &c. GUTTA-PERCHA

SHEET, TUBING, PUMP BUCKETS, VALVES, MACHINE BELTING; VES-SELS for chemicals and acids, &c.; WATERPROOF CLOTHING, HOT-WATER CUSHIONS, MATTING, GROUND SHEETS, APRONS, WAGON COVERS, &c., &c.

TELEGRAPH INSTRUMENTS,
INSULATORS, BATTERIES, INSULATED WIRE, and every description of
TELEGRAPH APPARATUS and STORES.
Vulcanised India-rubber specially prepared to withstand the action of Tropical climates.
WORKS, SILVERTOWN, ESSEX.

TO TIN-PLATE MANUFACTURERS.

PUGHSLEY'S PATENT

FOR RECOVERY OF VITRIOL FROM REFUSE "PICKLE" OF TIN-PLATE WORKS, AND THEREBY PREVENTING THE POLLUTION OF RIVERS.

THIS SIMPLE, EFFECTUAL, INEXPENSIVE, AND PROFITABLE PROCESS has been adopted, and is now being used with great success, at the following tin-plate works:—Messrs. J. Y. and F. Moggridge, Caerleon Works; T. W. Booker and Co., Melin Griffith Works; Machen Tin-Piate Company; Pontypool Tin-Piate Company; Other works are preparing to adopt the patent, which is found to realise the following important advantages.

ESSRS. J. EVANS AND COMMINERS' SAFETY LAMPS, &c., 15, HENRIETTA STREET, BIRMINGHAM.

IMPROVED APPLICATION OF WATER POWER.

THE TURBINE.

THE TURBINE.

MAC ADAM BROTHERS AND CO., ENGINEERS, SOHO
FOUNDRY, BELFAST, have been engaged for fifteen years, with complete success, in MANUFACTURING their IMPROVED TURBINES, and can
recommend them with confidence.
This machine is applicable to all practicable heights of fall and quantities of
water, giving a much higher percentage of power than any other description of
water-wheels.

water wheels.
On low falls it has the additional advantage of not being affected by flobackwater, and it is particularly well adapted for any falls where the qua

Further particulars on application, also references to turbines now at work on a great variety of fails.

THE SEACOMBE FORGE RIVET AND BOLT COMPANY MANUFACTURERS OF

BOLTS RIVETS, WASHERS, COACH SCREWS, SPIKES, SET PINS, TIE RODS, COTTER PINS, &c.; ENGINEERS' AND SHIPBUILDERS' FORGINGS, SMITHS' WORK and every description of SHIPS' FASTENINGS.

WORKS,-SEACOMBE, NEAR BIRKENHEAD

THE CORNWALL BLASTING POWDER COMPANY, ST. ALLEN GUNPOWDER MILLS, TRURO,

ST. ALLEN GUNPOWDER MILLS, TRURO,

MANUFACTURERS OF PATENT BLASTING POWDER,
ORDINABY GUNPOWDER, AND WATERPROOF SAFETY
BLASTING CARTRIDGES.

THE CORNWALL BLASTING POWDER COMPANY SOLICIT PARTICULAR ATTENTION to their PATENT BLASTING POWDER, which has
now been fully tested by time, and the growing estimation in which it is held
by working men proves its great superiority over ordinary gunpowder.
It possesses the following advantages:—
Its WEIGHT being about TWENTY.FIVE PER CENT. LESS than ORDINARY GUNPOWDER, and EQUAL in STRENOTH, bulk for bulk, an IMPORTANT SAVING IS EFFECTED on the score of CONSUMPTION.
It creates, on explosion, only about ONE-HALF as much SMOKE as ORDINARY GUNPOWDER, and this smoke being of a lighter nature soon passes
away, and an IMPORTANT SAVING is thus EFFECTED on the score of TIME.
It is ADAFTED to ANY CLIMATE, DOES NOT BECOME WASTEFUL by
EXPOSURE to the ATMOSPHERE, IS NOT MORE DANGEROUS in use than
ORDINARY GUNPOWDER. EXPOSURE to the ATMOS ORDINARY GUNPOWDER Testimonials forwarded on application.

Swan Rope Works,

A R.NOCK BIBBY, AND CO.,
MANUFACTURERS OF FLAT and ROUND HEMP and IRON and STAEL
WIRE ROPES for MINING, RAILWAY, and SHIPPING PURPOSES.
MANILLA ROPE of SUPERIOR QUALITY, FIFTY PER CENT. STRONGER
and THERTY PER CENT. CHEAPER than Russian bemp rope.
WIRE ROPE of FIRST QUALITY WIRE, and the HIGHEST STANDARD
of STRENGTH. of STRENGTH.

D ERING'S PATENT ENGINE FOR TUNNELLING MINING, QUARRYING, and BLASTING in OPEN CUTTING. SAVING of THIRTY to SIXTY PER CENT. in labour effected where the

cost of addit exceeds £6 per fathom.

TIME for DRIVING ADIT REDUCED FIFTY to SEVENTY-FIVE per cent "These drilling engines are in daily use at the zinc mines of the Vieille Montagne," &c.—Times, Dec. 24, 1866.
"One of these machines was shown to work in an exceedingly satisfactory manner upon hard granite."—Engineering, Dec. 21, 1866.

Particulars may be obtained of Mr. DŒBING, or Mr. GROVER. 30, Duke-atreet

NITRO-GLYCERINE, OR NOBEL'S PATENT BLASTING OIL.—The EXPLOSIVE FORCE of this BLASTING OIL IS TEN TIMES that of GUNPOWDER, and the ECONOMY and SAVING IN TIME, LABOUR, and COST in removing granite and hard rock, in sinking shafts, driving tunnels, and opening forward in close ends is immense.

It will not explode from a spark or fire, but from concussion alone, and is consequently much less dangerous than gunpowder or gun-cotton.

Being heavier than water it sinks to the bottom of a wet hole, no other tamping than water being required.

Being heavier than water it sinks to the bottom of a wet hole, no other tamping than water being required.

One charge of this blasting oil, which is now being used with wonderful effect in all the largest slate quarries in North Wales, will displace as much slate rock as four or five charges of guipowder; and its great force, acting on a large quantity of good slate rock, shakes and displaces it at the natural joints, or cracks, without damaging the slabs mearly so much as the more numerous blasts from any other blasting material would do.

This invaluable quarrying agent may now be obtained from Messrs. Webb and Co., Carnarvon, sole consignees from the patentee.

In the Court of the Vice-Warden of the Stannaries Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the WHEAL HARTLEY MINING COMPANY.—TO BE SOLD, under the direction of the Registrar of the said Court, BY PUBLIC AUCTION, on Monday, the 5th day of August next, at Twelve o'clock at noon, at WHEAL HARTLEY MINE, in the parish of Gwinear, within the said Stannaries, either together or in lots, the MINE SETT or GRANT of the said company, and the undermentioned MINING MACHINERY and MATERIALS, namely:—ONE steam PUMPING ENGINE, 40 inch, 9 feet stroke, equal beam, with rod (almost new), boiler and fittings; capstan and shears.

The materials may be inspected at any time prior to the sale, on application to Mr. WILLIAM IBBOTT, in charge thereof.

HODGE, HOCKIN, AND MARRACK, Solicitors, Truro.

Dated Registrar's Office, Truro, July 18, 1867.

In the Court of the Vice-Warden of the Stannaries, Stannaries of Cornwall.

IN RE NORTH PHŒNIX MINE.

To BE SOLD, pursuant to an Order made in a Cause Dingle v. Chaplin, dated the 25th day of June last, at the Registrar's Office, Truro, on Wednesday, the 31st day of July instant, at One o'clock in the afterneon precisely, the

Truro, on Wednesday, the 31st day of July Installe, as the defendant, noon precisely, the 18 (4000ths) PARTS or SHARES of the defendant, Of and in the said MINE.

(Agent for C. Childs, Plaintiff's Solicitor, Liskeard).

Dated Registrar's Office, Truro, July 17, 1867.

DEVON.

FURZE HILL WOOD MINE, HORRABRIDGE, NEAR TAVISTOCK. MR. W. J. MAY WILL SELL, BY AUCTION, at the Roborough Inn, Horrabridge (on such conditions as will be produced), on Tuesday,

MR. W. J. MAY WILL SELL, BY AUCTION, at the Roborough
Inn, Horrabridge (on such conditions as will be produced), on Tuesday,
the 30th of July inst., at Three o'clock P.M., in One Lot, the LEASE of the above
MINE, together with the very valuable MACHINERY thereon, viz.:—
A very superior 24 inch cylinder ROTARY ENGINE, with BOILER about
10 tons, one fly-wheel 24 ft. diameter, sweep rod and other connections, all of
the best construction and in excellent condition; one cast-from stamp axic carrying twelve heads, iron litters with frames complete, in good working order;
one crab winch, shears, poppet heads, several flat rods, angle and balance bob,
pulleys, stands and wheels, two 4-ft. and other shieves; 70 fms. of 7, 3, and 10 in.
pitwork; 40 fms. of 7-in. wood rods, plates, pins, staples and glands; 130 fms.
best whim chain; several kibbles; three tram wagons; 300 fms. train iron,
screw stocks, grindstone, bellows, vice, smiths' and miners' tools, two good
blocks, hand screw; beam, scales, and weights; a quantity of old iron; dressing-floors, with buddles, &c.; one water-wheel to work round buddles; dressing-floors, with buddles, &c.; one water-wheel to more and small launders, and
the usual requisites of a tin mine.
For viewing the same apply on the mine; and for further particulars to the
Auctioneer, 4, Mutley-plain, Plymouth.
At the above mine sufficient ore is now being raised to pay labour cost. The
plant, which is of first-rate quality, is in rare working order; and the principal
difficulties incident to mining operations being overcome, an opportunity is now
offered to capitalists rarely to be met with.

4, Mutley-plain, Plymouth, July 5, 1867.

TO IRON AND COALMASTERS.

IMPORTANT IRONWORKS AND COLLIERIES FOR SALE, IN THE SOUTH STAFFORDSHIRE DISTRICT.

MESSRS. JOSEPH COOKSEY AND SON WILL SELL, AUCTION, at the Hen and Chickens Hotel, Birmingham, on Thurs, the lat day of August, 1867, at Five o'clock in the afternoon, the undermentic VALUABLE ESTATES, at OLDBURY, near BIRMINGHAM, in the follow or such other lots as may be agreed upon at the time of sale, and subject to sconditions as will be then produced:—

or such other lots as may be agreed upon at the time of sais, and subject lossics conditions as will be then produced:—

Lot 1.—All those FOUR BLAST FURNACES, with BLAST ENGINES, HOT BLAST APPARATUS, and HYDRAULIC LIFT, capable of producing 600 tons of pig-iron per week, together with FURNACE INCLINE and ENGINE, commodious coke and calcining hearths, and deposit room for cinders, tramways, canal basins and wharves, offices, fitting-shops, foundry, stables, manager's house, and other necessary erections and extensive frontages to the Birmingham Canal. Also several pairs of pit shafts, TWO STEAM ENGINES, and other colliery plant and erections, with land appurtenant thereto, comprising altogether an area of 23A. OR. 16P. of surface LAND, or thereabouts, late in the occupation of William Bennett, Esq., together with the MINES and MINEBALS thereunder; and also all the MINES in and under lands belonging to Mr. P. W. Bennett, except the mine of clay, part of the Birmingham Canal, and a molety of the turn-pike-road and Furnace-street, adjoining the property, containing together an area of 6A. 2R. 36P. The land has good frontages to the turnpike-road from Dudley to Birmingham, and to Furnace-street, and level adapted for sites for iron and other works requiring canal accommodation.

Lot 2.—All that COLLIERY at ROWAY LANE, OLDBURY, in the county

iron and other works requiring canal accommodation.

Lot 2.—All that COLLIERY at ROWAY LANE, OLDBURY, in the county of WORCESTER, with the STEAM ENGINE, COLLIERY ERECTIONS, PIT SHAFTS, LAND, and PREMISES, late in the occupation of Mesers. Partridge and Turnley, containing, with the sites of dwelling-houses and premises hereinafter mentioned, 9 a. 3 a. 22 P., or thereabouts, together with the ungotten MINES and MINERALS thereunder. And also all those TWO DWELLING HOUSES, LAND, GARDENS, and PREMISES thereto belonging, in the respective occudation of Hannah Payne and Thomas Boswell.

Parts of both lots are of freehold tenure, and the remaining parts thereof are of copyhold tenure, of the Manor of Oldbury.

For an order to view, apply to Mr. JAGGER, bank manager, or Mr. CHAMBERS timber merchant, both of Oldbury, and for further particulars and plaus to Messra. Bounne and Ower, Solicitors, Dudley; Messra. Houleby, WRAGGE, and EVANS, Solicitors, Birmingham; or the Auctioneers, at West Bromwich.

ABERNANT IRONWORKS, GLYNNEATH, GLAMORGANSHIRE.

THE STEAM-ENGINES, and other MOVEABLE PLANT and EFFECTS, WILL BE OFFERED FOR SALE, BY AUCTION, at the works, by Mr. J. M. LEEDER, on Thursday, the sth day of August, and following days.

Catalogues may be obtained on application to Mr. HENRY ALLEN, Meatl Abbey, Neath; or of the Auctioneer, 16, Caer-street, Swansea.

Abbey, Neath; or of the Auctioneer, 1e, University, 1868, on a day to be fixed hereafter, will be PUBLICLY SOLD, to the highest bidder, by the COMPANY FOR THE PROMOTION OF OPENING MINES IN NETHEL-LANDS INDIA, in liquidation, and after future approval by Government, THE CONCESSION FOR THE WORKING OF THE COAL MINES AT BANJOE-IRANG (KALANGAN), situate in the residency south, and eastern division of BORNEO, together with the WORKS at the MINES, erected by the company, in such condition as they may be found on being taken over.

Information can be obtained at Amsterdam, from Messra, HERKEREN and Co., whilst the original documents are kept for investigation at the office of Messra. TIEDEMAN and VAN KERCHEM at this place.

BLANGKENHAGES,

G. A. DE LANGE.

Batavia, 12th April, 1867.

D. JANNETTE WALEN.

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To view the same, and for further particulars, apply to Capt. James Richards, cover Great Consols, Tavistock.

Offers for purchase will be received by Mosses. Barlow and Smith, solicitots, by Waterloo-street, 4 Birmingham, up to 3d August next.

FOR SALE, and may be seen at the Ashburton Mines, ONE 56 in. PUMPING ENGINE, with TWO 11 ton CORNISH made BOILERS. ONE 40 in. PUMPING ENGINE, only made a short time, and as good as new, with an 11 ton BOILER. A 24 in. WHIM ENGINE, with stamps attached. ONE 11 ton BOILER. Several WATER-WHEELS of various sizes, one with a very excellent drawing machine attached. Pumps and materials of all sorts and izes.—Application may be made to Mr. W. MATHEWS, engineer, Tavishing or an be seen on application to people in charge of the mine.

TO BE SOLD, at the SEVERN COPPER AND LEAD MINES, near LLANIDLOES, for £200, all that new and substantial and well-

Inear LLANDLOES, for \$200, all that new and substantial suit MACHINERY, consisting of—
ONE WATER-WHEEL, 45 feet high, shout 4 feet 6 inches breast;
DRAWING MACHINE, upon the best principle;
ONE STEEL WIRE ROPE, 400 fathons long, ¾ in. diameter, and
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The other machinery is open for offers for further portions.

ONE CAPSTAN.
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TO BE DISPOSED OF, the HALF of a COLLIERY, situated in the thriving town of FLINT, and in the immediate vicinity of several extensive and well-known chemical works. The colliery is now open and in working order, and several seams of coal have been proven.

For further particulars, apply to Mr. JOSEPH HALL, Flint, North Wales

STEAM-BOILERS made by WILLIAM WILSON, LILYBANK BOILER WORKS, GLASGOW, on the most improved principles, for home and export. All boilers made of the best material and workmanship, proved and warranted tight under a high pressure, and delivered at any railway station or shipping port in the kingdom at moderate rates. Lithograph of being orwarded post-free on application.

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The coal can, by a simple and inexpensive process, be rendered available for all the ordinary uses of the coal from which it is derived.

A series of careful experiments have been made on the Monmonthehin Railway with fuel manufactured from the Risca Black Vein Coal (small) in boson ascertained that increased duty was obtained from the fuel over the same coal. The results of these experiments are so satisfactory that Mr. Alex, Bassett, Cis., of Cardiff, has consented to act as the company's representative and greeful incenses in South Wales, and will be happy to reply to all enquire for granting licenses in South Wales, and will be happy to reply to all enquire and greeful explanation respecting the trials that have been made under his superintendence. Mr. Thomas D. Clare, of Birmingham, has also undertaken to represent the company in the Midland Counties, and large works are in course of restein in the Forest of Dean by the company's licensees there.

The company are prepared to grant licenses for the use of their patents, and from the success which has attended the manufacture at their own works, and the extraordinary popularity of the fuel for retail purposes amongst the lower classes, they believe that in every populous town a large and highly profitable trade may be carried on.

The coat of the ingredients used in the manufacture does not exceed is pet ton; they contain no pitch, tar, or other nauseous substance, and the manufacture is not more expensive than ordinary brick-making.

The locks are available for every purpose of ordinary coal, and stow in esfourth less space (1 ton of fuel occupying 33 cubic feet only, as against 42 adminities in the manufacture and production of 100 tons daily will not exceed \$700.

Experiments have for some time past been in

raity measurement for coal).

The cost of the machinery, &c., necessary for the production of 100 tons daily will not exceed £700.

Experiments have for some time past been in progress at Woolwich with its view to render petroleum and other analogous oils available for use understean-boilers. The patentee's attention being directed to this fact, he found that the company's fuel, being porous, would rapidly absorb these oils, it on of heil taking up 50 gallons. This absorption does not in any way affect the solidity of the blocks, and it is believed they are the best medium for the purpose yet discovered, and that the fuel oil bricks will be an immense advantage to ocean sceans and vessels of war, on account of the vast saving in stowage and their scanproducing powers. The Admiraity have just granted permission for an official trial of the company's patents to all coalowners must be at ence aparent. It is also of respecial value to ironmasters; and, where the slackiessel for coking purposes, the process may be adopted to advantage in roughly smajamating the coal into blocks before placing it in the ovens. These blocks require no previous drying, and produce more coke and of better quality. The company will be happy to receive specimens of coal dust at their North Fleet Works, which will be manufactured and reported upon free of charge, safthey will send a competent person to manufacture a small quantity of fuel stay colliery where the experiments may be desired.

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OFFORD'S PATENT SAFETY FUSE OK FORD MEDALS at the ROYAL EXHIBITION of 1851; at the spread First MEDALS at the ROYAL EXHIBITION of 1863; in London; at the IMPERIAL EXTRONAL EXHIBITION of 1865; and at the INTERNATIONAL EXHIBITION, in Dublin, 1865.

BICKFORD, SMITH, AND CO., of TUCKINGMILL, CORNWALL, MANUFACTURES of PATENT SAFETY-FUSE, having been informed that the name of their firm has been attached to fuse not of their manufacture, beg to call the attention of fuse and public to the following announcement:—
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The principle thus introduced insures the most perfect attainment of the points essential for the safety and stability of the material, at the same time secturing the highest effective power.

A charge of any given size exerts six times the explosive force of supposed or the enormous power confined in a short length at the bottom lillows of a much greater amount of work being placed before each goonsideraby in the labour of drilling, remade of every diameter required, the length varying with the any number may be placed in a hole. Each charge is fully equal to spound of powder.

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Any number may be placed in a hole. Each charge is fully equal to a pound of powder.

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EN AND EDWIN WRIGHT.

PATENTERS.
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MANUFACTURERS OF EVERY DESCRIPTION OF IMPROVED

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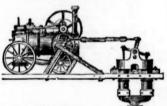
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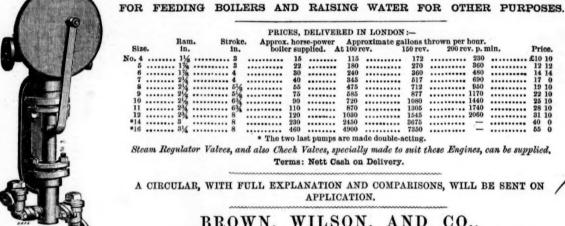
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Their quality is uniform. They withstand the greatest heat without danger. Their average durability for Gold, Sliver, Copper, and other ordinary metals is forty to fitty pourings, in some cases reaching one hundred. They never crack, and heat more rapidly than any other kind. One annealing only is required. Change of temperature has no effect. They can when hot from the furnace be dipped in cold water with safety. The saving of labour and metal is very great. In Steel Melting the saving of fuel has been denomstated to amount to a ton and a half to every ton of steel used. For Zine they last longer than iron pots, and save the great loss which arises from mixture with Iron. Those for Malteable Cast-iron show an average working of seven days, doing each day nearly double the work of any other crucible.

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A are made in sizes varying from 2 ozs. to any required capacity, and are marked by the quantity of kilogrammes they will contain; thus No. 100 will contain 100 kilogrammes.

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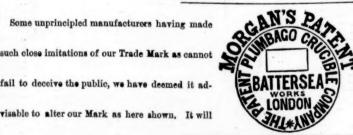
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	Bronfloyd, I, Cardigan*		0 0		••			••	-					6. Sept.		
								••			0		6	0Aug.	1866	1
	Cashwell, l, Cumberland*		10 0.				**				6	0		6Aug.		
	Cargoll, s-l, Newlyn		5 7	12		12	14		13	15	0	1	0	0 Feb.	1866	1
	Cwm Erfin, I, Cardiganshire*		10 0						23	18	0	1	0	0June	1867	Т
	Cwmystwith, l, Cardiganshire								379	10	0	3	0	0 Apri	1 1867	1
	Derwent Mines, s-l, Durham								174	10	0	5	0	0June	1867	1
1024	Devon Gt. Consols, c, Tavistockt	1	0 0	425					1060	0	0	6	0	0 May	1867	1
358	Dolcoath, c, t, Camborne	128	17 6	-					828	10	0	3		0June		1
	East Caradon, c, St. Cleert	2	14 6	61	4	534	516		14	11	6	0		0July		1
	East Darren, l, Cardiganshire	32	0 0	-							0		0	0 Mar.	1867	1
	East Pool, t, c, Pool, Illogan	24	5 0	-							0		0	0July	1867	1
	East Rosewarne, c, t, Gwinear	2	15 0	98.							6		1	6 Jan.	1886	п
1906	East Wheal Lovell, t, Wendron	3		8		634	614				0			6. April		Ł
	Foxdale, I, Isle of Man*	25	0 0	-		-74	-/16		70	10	0	0	10	0June	1867	в
	Frank Mills, I, Christow		18 6	-					3	5	6	0	K	0. Feb.	1866	1
	Great Laxey, I, Isle of Man*	4		20		16	18							0June		1
	Great Wheal Vor, t, c, Helstont	40		19			1756		11	18	0	0	7	6June	1967	1
	Herodsfoot, I, near Liskeardt		10 0	87		33							10	0June	1007	1
	Hingston Down, c t		10 6	_		00	00		0	10	0	â				1
	Lisburne, I, Cardiganshire		15 0	-				::	480	10	0		0	0April 0Mar.	1000	1
	Marke Valley, c, Caradon		10 6	5		458	476		2	7	0	0		0July		1
	Minera Boundary, l, Wrexham*	ī		_		4/5	1/8	••			0				1867	1
	Minera Mining Co. 1, Wrexham*	25	0 0	_				••	419	10	0	4		0. Mar.		1
2000	Mining Co. of Ireland, c, l, cl	7	0 0	16				••						0May	1867	Г
	Mwyndy Iron Ore*†	3		-						-				7Jan.	1867	1
	Parys Mines, c, Anglesey*	50		_	••						6			6 Yar.		1
200	Prosper United, t, c, St. Hilary	8		21	,	2 :	01/		101	10	0	9		0Jan.	1866	1
	Providence, t, Uny Lelant	10	6 7	30		28			00	.0	0	0	9	0Feb.	1867	ı
						20	30	••	62	17	6	0 1		0May	1867	1
	South Caradon, c, St. Cleert	1	5 0	_					556			6		0May	1867	1
	South Darren, !	3	6 6	-							6				1866	11
	Sumner Hill, Mold		13 6	-		202					0			0July	1867	Ι.
	Tincroft, c, t, Pool, Illogant	9	0 0	14		131/2	14				0				1867	1
	Trumpet Cons., t, Helston		10 0	_					11		0			0June		1
	W. Chiverton, I, Perranzapuloer	10		68		66	68		19		6			0May		1.
	West Wheal Seton, c, Cambornet.		10 0	155					473		0			0June		L
	Wheal Basset, c, Illogant	5	2 6	70		65	70		623		0			0June		Ι,
	Wheal Friendship, c, Tavistock	20	0 0	-					300					0 Nov.		1
	Wheal Kitty, t, St. Agnes	5	4 6	_					3	1	0	0	2	0Feb.	1867	П
	Wheal Mary Ann, I, Menheniott	8	0 0	15					61	15	0	0	15	0June	1867	1
	Wheal Rose, c, Scorrier			-					1					0 Feb.		1
	Wheal Seton, t, c, Camborne	58	10 0	120		110	115		244					0June		1
	Wheal Trelawny, s-l, Liskeardt	5	17 0	91	6	8	9							0June		1
	Whitewell Lead, Clitheroes		5 0	-										0June		1
17000	Wicklow, c, i, Wicklow	2	10 0	211	6									April		1
													- 1			

FOREIGN DIVIDEND MINES

15000 Cape Copper Mining*			2 12 6 0 10 0 April 1866
100000Don Pedro No. del Rey, Brazil*+;	0 14 0		0 4 3 0 1 6June 1867
25000 Fortuna, l, Spain*†	2 0 0		1 5 4 0 2 0 Oct. 1867
70000 English and Australian, ct			1 13 0 0 1 0 Feb. 1867
20000 Gen. Mining Assoc., Nova Scotiat	20 0 0		28 10 0 0 15 0 June 1867
10000 Gonnesa, 1,* [5000 £5 pd., 5000 £4]			71/2 per cent. per annum.
15000 Linares, t, Spain*†	3 0 0	1 11/2	11 6 4 0 5 0 Jan. 1865
50000 Panulcillo, c*†	3 0 0	2 21/2	10 per cent Yearly.
6000 Peel River Land and Mineral* †			
30000 Pestarena, g*†	2 10 0		0 26 0 26 Mar. 1867
10000 Pontgibaud, s-l, Francet	20 0 0	91/4 101/4	4 14 3 90 11 0 June 1867
100000 Port Phillip, g, Clunest	1 0 0		0 16 6 0 1 0 Jan. 1867
1200008cottish Australian Mining Co. t.	1 0 0	11/8	71% per cent Mar. 1867
11000 St. John del Rey, Brazil*†	15 0 0	66 57 59	77 5 0 4 10 0 June 1867
50000 Victoria (London) [25000 £1 pd., 2	5000 12s. 6d	. pd.]	0 90 0 10Jan., 1866
40000 West Canada Mining Company	1 0 0		0 19 6 0 2 6. May 1866

NON-DIVIDEND FOREIGN MINES.

			1
Shares.	Mines.	Paid. Last Pr. Bus.	done. Last Call.
25000 Alami	llios, 7, Spain*+	2 0 0 34	14 Fully pd.
100000 Anglo	-Brazilian, g*†	·· 2 0 0 ·· - 114.: 34	1 Nov. 1866
12500 Anglo-	-Italian, q*†	0 50	May 1867
20000 Austr	alian, c, South Australiaft	7 76	***************************************
40000 Britta	any Silver-Lead Mines, France* [15750 18s. pe	d.]	::
2464 Burra	Burra, c, South Australia:	5 00	::
95000 Capula	a, s, Mexico*†	1 12 0	Aug. 1866
20000 Chont	ales, g, s, Nicaragua* +	4 00 4% 45%	%June 1867
12000 Cobre	Copper Company, c, Cubatt	43 10 0	May 1867
10000 Copiar	po Mining Company, Chilit	16 10 0	
10000 Copiar	po Smelting, Chili*	10 00	April 1866
300 Copper	r Miners' Co. of South Australia 150 £100 p	od., 150 £70 pd.]	Nov. 1866
25000 East d	iel Rev. a. Brazil*†	2 15 0	June 1866
15000 El Chi	co Silver Mining and Reduction Company*	5 00	Nov. 1866
8000 Englis	sh and Canadian Mining Company	5 00	Fully pd.
40000 Fortu	ne Copper Mining Co. of Western Australia	2 00	Fully pd.
50000 Fronti	no and Bolivia, g, New Granada*†	1 15 0 5% 98. 1	0s,June 1867
10000 Great	Barrier Land, Mining, &c., New Zealand .	. 5 00	Fully pd.
80000 Great	Northern, c, South Australia	. 1 11 6	Sept. 1862
68000 Kapun	ada Mining Co., Australia†!	. 1 00	***
7927 Lusita	anian (Portugal) †	3 00	
83090 Mario	uita	0 12 6	Jan. 1867
12500 Nerbu	dda Coal and Iron* [6000 £5 pd., 6500 £4 pd.	.]	Aug. 1865
51800 New Q	Quebrada, c, Venezuela*†	. 3 10 0	***
50000 Nova 8	Scotia Land and Gold*	. 1 15 0	Sept. 1865 2
	c. New Zealand*		Fully pd.
10178 Rhenis	sh Consolidated, I [6000 £5 pd., 4178 £2 10s. pd.	.1	May 1866
	Grande, g. Brazil*		June 1867
15000 San Pe	edro del Monte, s, Mexico*	. 4 00	Sept. 1866
	oque, I, Spain		Fully pd.
	Mexican, s, Mexicott	. 28 50 2 134 2	
10000 Vancou	uver. cl*t:	. 6 00	
6000 Val Sa	ssara, s, c, l*+	. 7 00	Jan. 1867
45000 Victor	Emanuel, c, Italy*	. 1 00	Fully pd.
200000 Washo	e, gt	. 5 00	Fully pd. 1
	ing, c, South Australia *		Fully pd.
	Peninsula, South Australia		Frlly pd.
45000 Yudan	amutana, c, S. A.*†‡	3 00 116 34	1 Fully nd

BANKS AND FINANCIAL COMPANIES.

			001		AL		D.S.	
Shares	Banks.	1	Paid.	L	ast P	r	Bus, done	
40000	Alliance*†	25	0.0		165	٤	13 131/6	
40000	Australian Mort. Land and Financet	5	0 0			***	10 10/8	
20000	Australasia†		0 0		64		63	
10000	Bank of Egypt	25	0 0		-			
50000	Bank of New Zealandt	10	0 0		19		18 1814	
25000	Bank of Otago*†	10	0 0		-		/-	
20000	Bank of Victoria, Australiat	25	0 0		-			
20000	British North Americant	50	0 0		-			
8915	Canada Company +	32	10 0		71		65 68	
	Canadian Loan and Investment *		10 0		-			
44000	Chartered Bank India, Australia, and Chinat	20	0 0		181/4		19	
30000	Chartered Merc. of India, London and Chinat	25	0 0		32		25 27	
	City†		0.0		131/2		14 15	
20000	Colonial†	25	0 0		38			
40000	Company of African Merchants. * †		0 0		31/4		3 31/4	
	Consolidated Bank*†	4	0 0		-			
50000	ditto New*†	4	0 0		-			
	Credit Foncier and Mobilier of England*†	9	0 0		Massac			
20000	East London*†	5	0 0		_			
	English, Scottish, & Aust., Chart.		0 0	**	-			
20000	English and Swedish*†	25	0 0		-		201/ 40	
	Imperial Bank*†		0 0		23		181/2 19	
202000	Imperial Ottoman†	10	0 0				11/ 01/	
	London Chartered Bank of Australia	9	0 0		-		11/4 21/2	
			0 0		24	**	23	**
40000		20 30	0 0	**	9		7	
72000	London Joint-Stock†		0 0	**		**	42 44	
5000		40	0 0			**	20 22	**
20000		10	0 0	**	13	**	111/6	**
20000	ditto ditto New*		0 0		-		Y . 7.2	
10000	London and South-Western*	90	0.0		-			
5000	London and Venezuela*	19	10 0		-			::
\$0000	London and Westminstert	90	0 0		96		102 104	
\$0000	Mercantile and Exchange*†	19	10 0		_		200 202	
10000	Merchant*†	95	0 0		-			
5000	ditto New*	20	0.0		-			
17156	Metropolitan and Provincial*	90	0 0		-			
8000	Midland*†	20	0.0		-			
20000	National of Australia†	A	0.0					
20000	National of Liverpool*	15	0 0		_			
10000	National Provincial of England	42	0.0		-			
55000	ditto ditto 2d and 2d igano 4	12	0 0		-			
	National	30	0 0		-			
20000	New South Walest	20	0 0		45		441/4 45	
60000	Oriental Bank Corporation	25	0 0		44		41 43	
27210	Provincial Banking Corporation*†	10	0 0		41/4			
	Provincial of Ireland†		0 0				85 87	
10000	ditto ditto Newt	10	0 0		-		34	
10000	Union of Australia†	25	0 9		48		47 49	**
80010	Union of Ireland*†	22	0 0		41		60 00	**
00000	Union of Londont	To	0 0		41		38 89	

DVIVIL SHT

É		
	PROGRESSIVE MINES.	Shares. Mines. Paid, Last Pr. Bu
	Shares. Mines. 4000 Ballacorkish, I. of Man, I, c* 2 10 0 May 1867 3000 Redford Unit. c. Tayletk.* 2 6 8 1 May 1867	1094 So Herodefoot I Liskeard to o o
		3000 South Treven 1a, c, t 2 0 0 "
	1031 Bedol Aur, I, Holywell 1 12 0—	987 So. Wh. Grorey, c, Hlogan, 18 18 9. 3814 377
rid.	1248 Boscaswell t. c. St. Just 7 6 0 Dec. 1866	6000 South Wheal Grenville, t, c 0 18 0 8s.
867 866	7 2500 Bosworthen and Penzance. 4 0 0 —	400 So. Wn. Seton, c, Redruth. 9 10 0
866	200 Brynford Hall, l, Filnt 28 0 0 — Jan. 1866	64 Spearne Consols, t, St. Just 18 2 6.
866 866	5000 Bryn Gwyn, I, Mold*; 9 0 0 —	940 St. Ives Consols, t, St. Ives; 10 15 0
866	1000 Budnick Consols, c, t 100	673 St. Ives wheat Allen, t. 1 pd., 2000 10s. pd.].
1867 1867	1000 Caldbeck Fells, Cumber: 1 10 0	7000 Stiperstones, I, Salop* 5 0 0
867 867	4600 Camborne Vn.&Wh.Frn., c 11 12 1	3500 Tin Hill, t, St. Austell 1 80
867	914 Caradon Cons., c, St. Cleer 32 3 6 —	6000 Tolcarne, c, Camborne 16 0 0
867 867	1000 Carn Brea, c, t, Illogant 28 0 0	501 Tresavean and Trethurrup 16 11 0
867 866	5000 Carnarvonshire, l* 4 0 0— Fully pd. 4005 Cardigan Cons.* 5 0 0— Fully pd	4440 Trevenen & Fremenheete. 7 17 0
866 867	600 Cardiganshire, 1*	6400 Tyne Head, t, C 0 18 0
867 866	20000 Carysfort [3206 £2½ pd., 16800 £1½ pd.]	4200 Vigra and Clogau, c, Dolg. * 5 0 0
867		1 6000 West Basset, C, Inoganti 1 15 0
867 867	13000 Central Snailbeach l* 1 0 0	1319 West Cwm &rfin, l* [319 £4 raid]
866	3000 Chiverton Moor, I, Perranz. 6 6 0 5%5% 5%May 1867	2850 W. Condurrow, t, c, Cam 13 11 c
867 867	4000 Clara, Llywernog 2 16 6. —	12800 West Drake Walls, c 0 2 6 4 4 2592 West Great Work, t* 5 11 0 4
866	256 Condurrow, c, t, Cambornet 76 10 0 —	2592 West Great Work, b
867 867	2450 Connorree, c, sul, Wicklow* 1 0 0 Fully pd. 2450 Cook's Kitchen, c, Illogan; 19 14 9 July, 1866 1024 Conper Hill. c. Redruthf. 12 10 0 June, 1866	12000 W.Maria & Fortes., c, Lam. 3 10 0
866	1024 Copper Hill, c, Redruth; . 12 10 0 June, 1866 6885 Cornish Clay and Tin 1 0 0 Fully pd.	12800 West Prince of Wales, c 44
866 867	6885 Cornish Clay and Tin 1 0 0	1 1000 West Rose Down c. Linkin, 19 & 0
867	861 Crane, c, Camborne 33 9 6—	6000 West St. Ives, t, c
867 866	6000 Cuddra, t, St. Austell 5 0 0 Oct. 1866	5000 W. Wh. Kitty, t, St. Agnes. 2 17 6 1
867 867	35000 Dale, I, North Stafford 1 0 0	5000 W. Wh. Kitty, t, St. Agnes. 2 17 6 1
867	1024 Dev. Wh. Lopes, Bickleigh. 18 10 0. —	6000 Wheal Alice Alfred, t, c 2 0 0
867 867	12800 Drake Walls, t, Calstock‡ 2 5 0	512 Wheal Busler, Redrutht. 21 10 0. 26 20 6000 Wheal Creber, C. Taylstek 2 2 6 10.
867	25000 Dundalk, Ireland, l* 0 15 0	6000 Wheal Crebor, c, Tavistock 2 2 6 10s
866 867	3000 Dyfngwm, l, Wales 13 7 0. —	
867 866	512 East Basset, c, Redruth; 1. 29 10 0. 20 . 18 20	4000 Wh. Emma, c, Buckfastlel. 3 19 0 6000 Wheal Grenville, c, Camb. 9 18 0 22s 20
866 867	1000 East Basset and Grylls, t 3 5 0	6000 Wheal Ida, s. I, St. Ive 1 0 0
867	6000 F Carn Brea c. Redrutht 3 15 0 2 24	1024 Wh. Kitty, t, Uny Lelantt. 3 10 6
867 867	6000 E. Carn Brea, c, Redruth; 3 15 0 224 Mar. 1867 4000 East Chivercon, t, Perranz. 2 11 9 1½1½ 1½ Mar. 1867 6000 E. Crayrille, c Carporne. 3 6 6 244 Feb. 1867	896 Wh. Margaret, t. Uny Le. 1 8 17 6 7 728 Wheal Margery, t, c 25 4 10.
De.	6000 E. Grenville, c, Camborne. 3 6 6 2/4 Feb. 1867 4000 E. Gunnislake & S. Bed. c. 9 7 6 June 1867	100 Wheal Mary, t, Lelant 1 36 2 6
		6000 Wheal Mary Florence, c*. 1 19 0
	6000 East Neptune, c, Marazion. — —	6000 Wh. Norris, t, c, St. Cleer 4 6 1
	8986 E. Providence, t, Uny Lel. 5 1 9	6000 Wheat Sparnon, c, Redruth 3 & 6
866 867	9000 E St. Inst. t* [6000 £3 10s. pd., 3000 £1 10s. pd.] Nov. 1866	1920 Wh. Trannack, c. Sithney, 1 13 3.
867 867	9000 E. St. Just, t* [6000 £3 10s. pd., 3000 £1 10s. pd.] Xov. 1606 256 East Toigus, c, Redruth 96 0 0	1200 Wheal Trevenna, t, c* 9 10 0 4096 Wheal Uny, t, c, Redruth 10 9 6
867	5000 F. Wh. Agar, c, St. Cleer. 12 17 0	4096 Wheat Unj, e, c, months
867	4000 E. Wh. Russell, Tavistock 12 1 6 2 178 174 Pill 1001	
865 V.	6000 Fortescue Consols, c 0 12 6 —	100
у.	6000 Furze HillWoodCon.Buckl. 1 16 0	MISCELLANEOUS.
867 867	10000 Fursdon, c* [5000 £1 10s.]	
867	6000 Gen. Min. Co. for Ireland, c 5 10 0	60000 Anglo-American Telegr. *† 10 0 0 18%18%
867 867	6000 Gen. Min. Co. for Ireland, c 5 10 0 — 40000 Glasgow Caradon c* [30000 £1 pd., 10000 10. pd.]Sept. 1866	600000 Atlantic Telegraph** 100 0 0 49
366	6144 Congress of St. Cleer 6 1 0 June 1867	20000 Australian Agricultural, 20 10 0 18 17
66	6144 Gonamena, c, St. Cleer 6 1 0 June 1867 6000 Gothic, s-I, Cardigan* 2 10 0 5 4½ 5 Fully pd. 486 Challeng St. Aubynt 71 0 0	47000 Berlin Waterworks** 10 0 0 1921
1	486 Grambler and St. Aubynt‡ 71 0 0	13000 ditto New*† 4 0 0 6 25000 Bolckow, Vaughan*† 22 10 0 —
1	4096 Great Caradon, c, St. Ive 3 13 0 — Feb. 1867	10000 Bombay Gas*7 5 0 0 4%
	3000 Great Chiverton, s-t* 1 0 0	6000 British American Landt., 44 0 0., 22
ul.	5000 Gt. East Lovell, t, Helston 2 1 0 June, 1867	534780 Brit. & Irish Mag. Teleg. *100 0 0 22
od. 866	5000 Great North Downs, c 6 13 0 3% 3% Feb. 1867	25000 Ceylon Company 1 10 0 081/4 9
366 367		27000 ChinaStmship&Lab.Coalf 11 0 0
1	6000 Great South Chiverton, s-l. 1 5 0 June 1867	20000 City Discount*† 3 0 0 — 20000 City London Real Prop. *† 8 0 0 514
1	3313 Great Wheal Baddern, t 7 17 6	35000 City of Moscow Gas*† 25 0 0 16
366 367	1798 Gt Wh Fortune t Breage 27 14 6 Mar. 1867	15041 City of Milan Improv.*+ 15 0 0 — 4959 ditto ditto * 30 0 0 —
367	10240 Gunntslake (Clitters'), t. c. 4 19 0 April 1867	20000 City Offices*1
366	6000 Hallenbeagle c Kenwyn 2 17 0 April 1867	1 30000 Colonial*I
366 366	5000 Harwood, l, Durham* 0 6 0	10000 ditto*†
66 66	6000 Lody Portha c Taylstock, 4 4 0 May 1867	2500 ditto ditto *†. 20 0 0
d.	160 Levant c. t. St. Just 10 8 1 June, 1866	42000 Copper Miners of Eng. † [2000 £25 pd., 40000£100 p 10000 Cred. Fonc. of Mauritius*† 10 0 0 —
d. 67	1024 Lovell Consols, t	10000 Cred. Fonc. of Mauritius*† 10 0 0 — 1002925Crystal Palace†
d.		160820 ditto preference 100 0 0 101 100 10 ditto 6 per cent. p.d. + 100 0 0 105 100 10
62	640 Maudlin, c, Lostwithiel 4 7 0	7500 Darieeling*†
-1	1024 Mount Pleasant, I, Mold 4 0 0 1024 Nangiles, I, c, Kea 27 5 0 15 12 15 Feb. 1867 12800 Nather Hearth \$ [6400 £1 pd., 6400 2s. pd.]	5000 E. India Irriga. & Canalt. 16 10 0
67 65	12800 Nether Hearth* [6400 £1 pd., 6400 2s. pd.]	5000 E. India Irriga. & Canalt. 16 10 0
	6000 New Girfford, c., Gwennap* 2 10 0 —	80000 Ebbw Vale Iron Co.*† 27 10 0 — 113813 Egyptian Com. & Tradg.*† 7 0 0 2 879975 Electric Telegraph †100 0 0 145142 1
d.	24000 New Cornish [12000 £1 pd., 12000 15s. pd.]	20000 English and For. Credit*† 7 10 0
66 67	400 New Hendra t c Breage. 14 11 0 Mar. 1866	25060 Fairbairn Engineering*t. 5 0 0 8
66	400 New Hendra, f, c, Breage. 14 11 0	25000 Fore-street Warehouse*t. 12 0 0 13 14
d.	7755 New Pembroke, t. c	20000 General Stm. Navigation 14 0 0 35 2
	960 New Trevenen, t, Wendron 8 14 0	1000 Hollsbush Col and Cokes 5 0.0 mm
67 d.	400 New Wheal Lovell, 1	20000 Home and Colon. Assur. *† 5 0 0 —
d.	2000 New Wheal Towan, c, t 1 10 0	5000 Hong Kong & China Gas*† 10 0 0 — 100000 Hudson's Bay†
d.	North Downs, c, Redruth 4 16 4	50000 Indian Carrying 1 1 15 0
d.	North Downs, c, Redruth 4 16 4	50000 Indian Carrying 1 1 15 0
1	16000 N. Hallenbeagle [8000 £1 pd., 8000 8s. 6d. pd.]July, 1865 6000 North Jane, t, s-l, Kenwyn. 3 1 6	50000 Italian Irrigation*† 20 0 0 5 49 4
-1	2000 North Jane, t, s-t, Kenwyn. 3 1 6	30000 Italian Landt 5 0 0 1% 1
1	2000 North Levant, c, St. Just 10 12 0 April, 1867 20000 North Levant, c, St. Just 10 12 0 Fully pd. 4600 Nth. Minera, i, Wresham* 1 0 0 Fully pd. 5833 N. Phonix, c, Linkinhorno 4 2 6 May, 1867 May, 1867	20000 Land Securities *† 5 0 0
1	3933 North Retailerk Mine 2 0 0 5	20000 London Artesin Frances 5 0 0
1	1024 North Petallack Mine 2 0 0 5 Feb. 1867 695 No. Roskear, c, Camborne. 52 14 0	50000 London County & Build. *† 2 0 0 1 14 1 11/2 12040 London Dist. Telegraph *† 5 0 0 11/4 1 11/2
1	1935 No. Treskerby.c, St. Agnes 1 9 0. 114. % 118. April 1966 1	148525 London Gen. Omnibus * 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1	5936 No. Treskerby, c, St. Agnes 1 9 0. 114. % 116 April, 1866 6000 North Wheal Basset, c, tt. 5 0 0	5000 London and Glas. Engl. *† 25 0 0 1%; 64500 London & Prov. Marine*† 2 0 0 1%; 5000 Madrae Englesten
1	5610 North Wheal Crofty, ct 3 11 3 3\(\)3\(\) 3\(\)3\(\) 3\(\)July 1866 3000 North Wh. Chiverton L 4 0 0	50000 Madras Irrigation*† 20 0 0 35 1
1	6144 N.Wh. Robert, Smp.Spiney 4 8 11	
1		
	8000 Okehampton	9280 Merchant Shipping* 50 0 0 38 4 40000 Millwall Ironworks* 7 10 0 500000 Millwall Freehold Land*floo 0 0
1	5000 Old Gunnislake.c, Calstock 2 15 0. — Mar. 1867 5 5000 Old Westminster, Denbigh* 2 0 0. 2½2½ 2½June 1867 5 6400 Pay Cornels St. Blageytt 2 12 0. — July 1867 5	500000 Millwall Freehold Land*100 0 0 16
1	8465 Par Consols, c, St. Blazeyt 2 12 0	36500 Natal Land and Col # 5 10 0
1	8469 Pedn-an-drea, t, Redruth. 6 2 6. - May 1867 <	36500 Natal Land and Col 5 10 0 121/4 120000 National Discount*† 5 0 0 121/4 40000 ditto new, issued at 5 pm. † 5 0 0 — 111/11
1	3340 Penhale Wheal Vor. t, c 3 12 6 July 1867	20000 National Provin. Marine*† 2 10 0 19 1
	5000 Penhalls, t, St. Agnes 3 0 0	20000 National Steam Naviga. * 30 0 0.
	1772 Fellians, S. S. Agnes 15 0 0 Fully pd. 1512 Polbreen, t, St. Agnes 8 0 0 Aug. 1860 16000 Flore Arthur Consols, iv. 2 0 0 20 5 618 Fully pd. 1860 16000 Flore Arthur Consols, iv. 2 0 0 30 508 618 Fully pd.	25000 New Consolidated Disct. * 3 0 0 22 34 2
1 1	10000 Prince Arthur Consols, l* 2 0 0 Fully pd. 12800 Prince of Wales, t, Calstock 0 12 6 3 4 59s. 61s Feb. 1867	20000 New Zealand Trust. &c. ** 5 0 0.
	12000 Redmoor, c, t, Callington. 1 11 6 Feb. 1867	
1	1024 Reinnie Laxey, I,I. of Man 4 0 0	95000 ditto B*+ 9 0 0 "
1		25000 ditto 8*† 5 0 0 3 0 0 3 0 0
1	3973 Rosewarne Consols, 5 2 6 — Feb. 1866	25000 Otago and Southland*† 2 0 0 3 48 4
1	6915 Rosewall Hill & Ransom, c 3 0 0	
1	20000 Snaefell, l, Isle of Man* 1 0 0 Fully pd.	100 Picksley Simms and Co 7 0 0
1	4096 Sithney Wheal Metal, 2 4 5 6	10000 Rhymney Iron*† 50 0 0 25 78
1	olz South Basset, c. twennap, 20 10 U.,	10000 ditto New*† 50 0 0 7% 89 50 15000 Royal Mail Steam*† 60 0 0 95 89 51
1	1024 South Callington, s-1 5 17 6 2½ 2 2½Jan. 1867 3000 So. Chiverton s. 7 Perran. 5 15 0	14900 Scottish Austra. Invest. *† 100 0 0 125 120 12 14900 Scottish Austra. In Land *† 25 0 0 35 35 37
1	3000 So. Chiverton, s, l, Perran. 5 15 0 — June, 1866 1	280000 Submarine Telegraph * 100 0 0
	6138 So. Condurrow, 4, c, Camb. 3715 6. 34.11s. 13s. May 1867 2283 South Creaver, c, Crowan. 12 9 0. —	
	1024 South Devon, c & l 3 0 0	20000 Uni Kingdom Telegraph## 5 0 0 1%.
1	2 in p	20000 ditto 10 per cent. pref.*† 8 0 0
	5000 So. Exmouth, l.Christow 2 17 0 Feb. 1866 2	
	5000 So. Exmouth, L. Christow. 2 17 0 —	

	Feb. 1867	
	Feb. 1866 Mar. 1865	MISCELLANEOUS.
	Feb. 1866	
	May 1867	
	Sept. 1866	20000 Anglo-Mexican Mintt 10 00 -
	April 1864	600000 Atlantic Telegraph*†100 0 0 42 35 45 600000 ditto 8 per cent.*†100 0 0 92 85 87 20000 Australian Agricultural†. 20 10 0 18 17 19
	June 1867	20000 Australian Agriculturalt. 20 10 0. 18 . 17 19
5	Fully pd. Mar. 1867	1 47000 Berlin Waterworks** 10 00 191/18
	Mar. 1867	13000 ditto New*+ 4 0 0 6
	Feb. 1867	25000 Bolckow, Vaughan*† 22 10 0 — 40000 Bombay Gas*† 5 0 0 — 41/4
	May, 1867	
	Nov. 1866	ooo michigani minerican manaja da o o
14	June, 1867 Feb. 1867	534780 Brit. & Irish Mag. Teleg. *†100 0 0 95
*	Jan. 1867	25000 Ceylon Company*† 10 0 0 —8½ 9½ 12000 ditto A shares*† 5 0 0 — 3 4
į.	April 1867	1 27000 ChinaStmship&Lab.Coalt 11 0 0
	May 1867	30000 City Discount*
	June, 1863	20000 City London Real Prop. *† 8 0 0 51/2 35000 City of Moscow Gas *† 25 0 0 16
	Mar. 1867	15041 City of Milan Improv. * 1. 15 0 0
	** A mull 1907	
	April 1867 June 1867	20000 City Offices*1
	April 1867	30000 Colonial*1
	Sept. 1864	1 50000 Commercial Uni. (Insu.) + 5 0 0 4 3% 4
	Mar. 1866 May 1867	1 17500 Continental Union Gas*†. 15 0 0
	Mar. 1866	2500 ditto ditto *†. 20 0 0 — 42000 Copper Miners of Eng. † [2000 £25 pd., 40000£100 pd.
	June, 1866	10000 Cred. Fonc. of Mauritius*† 10 0 0
		1002925Crystal Palacet
	Jan. 1866	160820 ditto preference 100 0 0 101%
	May, 1865	7500 Darjeeling*†
	Feb. 1867	20000 E. Indian Land, Credit* 1. 10 0 0
		5000 E. India Irriga. & Canalt. 16 10 0
	Oct. 1866	80000 Ebbw Vale Iron Co. *+ 27 10 0
	May 1867 Sept. 1866	113813 Egyptian Com. & Tradg. *† 7 0 0 2 879975 Electric Telegraph †100 0 0 145 143 14
	June 1867	20000 English and For. Credit* 7 10 0
	April. 1867	10000 English. & Scot. Marine * 8 0 0
	Mar. 1866	25000 Fairbairn Engineering*†. 5 0 0 5
	July 1867	30000 Fore-street watenouse-1" 13 0 0" - " 12
	May, 1866 May, 1866	20000 General Stm. Navigation 14 0 0 35 2
	some a root	4000 Hollybush Col. and Coke 5 0 0
	April 1867	20000 Home and Colon. Assur.*† 5 0 0
	July, 1866	5000 Hong Kong & China Gas*† 10 0 0
	July, 1866 Mar. 1867	100000 Hudson's Bayt
	June 1867	50000 Indian Carrying*† 1 15 0
	Dec. 1866	150000 International Financial* 5 0 0 3 3
	July, 1865	50000 Italian Irrigation** 20 9 0 5
	Mar. 1867	1000000 ditto 6 per cent.*†,100 0 0 43 4 30000 Italian Land† 5 0 0
	April, 1867 Fully pd.	20000 Land Securities * 5 0 0 1%
	May, 1867	4000 London African Tradg. ** 10 0 0 **
	. Mar. 1867	20000 Lon. & Caledon. Marine 5 0 0
	Feb. 1867	12000 London County & Build. * 2 0 0 1¼ 1 1½
	May, 1867	148525 London Gen. Omnibus * 4 0 0 74
á	**	5000 London and Glas. Engl. *7 20 0 0
,	April,1866	64500 London & Prov. Marine 7 2 00.
	July 1866 Mar. 1867	50000 Madras Irrigation*† 20 0 0 38 1 10000 Marine Investment*† 6 5 0
	Mar. 1867	12500 Mauritius Land.Cred&c. * 2 0 0 **
	Aug. 1866	12000 Mediterranean Ex. Tel. * 10 0 0 325
		9280 Merchant Shipping*† 50 0 0
	Mar. 1867	40000 Millwall Ironworks*† 7 10 0
	July 1867	20000 Mineral Rights Assoc 1 0 0 78
	May 1867	36500 Natal Land and Col * 5 10 0
	May 1867	120000 National Discount 5 0 U. 1278 11141
	July 1867	40000 ditto new, issued at 5 pm. † 5 0 0
	May, 1866 Fully pd.	
	Aug. 1860	25000 New Consolidated Disct. * 3 0 0
_	Fully pd.	20000 New Zealand Loan, &c. *+ 2 10 0 2/4 2/20000 New Zealand Trust, &c. *+ 5 0 0
٤.	Feb. 1867	
	Feb. 1867	15000 Northern Assam Teast 3 10 0
	.Nov. 1866	25000 ditto B*† 9 0 0 "34 8
	April 1867 I	30000 Oriental Gas*† 5 0 0 12 18
	Feb. 1866 Aug. 1866	
	June 1867	25000 Otago and Southland 1. 2 0 0. 61 . 43 4 20000 Peninsular and Oriental + 50 0 0. 61 . 43 4 20000 dtto dtto New + 50 0 0. 55 . 45 4
	Fully pd.	20000 ditto ditto New* 50 0 0 58
	Fully pd. July, 1866 Oct. 1866	100 Picksley Simms and Co 7 0 0
	Oct. 1866	10000 Rhymney Iron * 50 0 0 25 78
	Oct. 1866	10000 Royal Mail Steam*+ 60 0 0 95 89 92
	June 1867	200000 Scottish Austra, Invest. * 100 0 0 120 25
	June, 1866	14200 South Australian Landet, 25 U
ø.	June, 1866	agonoo Submarine Telegraph## . 100 0 0.0 "
	.Oct. 1865	ditto Scrip*† 1 0 0 54
	1	ditto Sorip*† 1 0 0.0 5% 5% 5% 5% 5% 5% 5% 5
	Aug. 1866 Feb. 1866	20000 ditto 10 per cent. pref.* \$ 0 0
	1000 1	20000 arter to ber come branch
	. I land	stirent of slate; ad stiver-lead; f. tin; s, sinc.

** Companies marked thus * have been incorporated with Limited Liability; those marked † have been admitted on the 500 those marked thus ‡ have paid Dividends.

. Our object being to make the Share List correct, we earnestly call upon those who have the power to aid us, by forwards tions or correction which may, from time to time, come under their notice. To shareholders, as well as those officially of the mines, we appeal for information. Reports from mines—in fact, mining intelligence of every description, forwards will meet with ready attention.

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